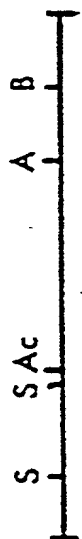


Fig. 1

200bp



pBPR35



pBPR114



pBPR68

15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100-101-102-103-104-105-106-107-108-109-110-111-112-113-114-115-116-117-118-119-120-121-122-123-124-125-126-127-128-129-130-131-132-133-134-135-136-137-138-139-140-141-142-143-144-145-146-147-148-149-150-151-152-153-154-155-156-157-158-159-160-161-162-163-164-165-166-167-168-169-170-171-172-173-174-175-176-177-178-179-180-181-182-183-184-185-186-187-188-189-190-191-192-193-194-195-196-197-198-199-200-201-202-203-204-205-206-207-208-209-210-211-212-213-214-215-216-217-218-219-220-221-222-223-224-225-226-227-228-229-230-231-232-233-234-235-236-237-238-239-240-241-242-243-244-245-246-247-248-249-250-251-252-253-254-255-256-257-258-259-260-261-262-263-264-265-266-267-268-269-270-271-272-273-274-275-276-277-278-279-280-281-282-283-284-285-286-287-288-289-290-291-292-293-294-295-296-297-298-299-300-301-302-303-304-305-306-307-308-309-310-311-312-313-314-315-316-317-318-319-320-321-322-323-324-325-326-327-328-329-330-331-332-333-334-335-336-337-338-339-340-341-342-343-344-345-346-347-348-349-350-351-352-353-354-355-356-357-358-359-360-361-362-363-364-365-366-367-368-369-370-371-372-373-374-375-376-377-378-379-380-381-382-383-384-385-386-387-388-389-390-391-392-393-394-395-396-397-398-399-400-401-402-403-404-405-406-407-408-409-410-411-412-413-414-415-416-417-418-419-420-421-422-423-424-425-426-427-428-429-430-431-432-433-434-435-436-437-438-439-440-441-442-443-444-445-446-447-448-449-450-451-452-453-454-455-456-457-458-459-460-461-462-463-464-465-466-467-468-469-470-471-472-473-474-475-476-477-478-479-480-481-482-483-484-485-486-487-488-489-490-491-492-493-494-495-496-497-498-499-500-501-502-503-504-505-506-507-508-509-510-511-512-513-514-515-516-517-518-519-520-521-522-523-524-525-526-527-528-529-530-531-532-533-534-535-536-537-538-539-540-541-542-543-544-545-546-547-548-549-550-551-552-553-554-555-556-557-558-559-560-561-562-563-564-565-566-567-568-569-570-571-572-573-574-575-576-577-578-579-580-581-582-583-584-585-586-587-588-589-590-591-592-593-594-595-596-597-598-599-600-601-602-603-604-605-606-607-608-609-610-611-612-613-614-615-616-617-618-619-620-621-622-623-624-625-626-627-628-629-630-631-632-633-634-635-636-637-638-639-640-641-642-643-644-645-646-647-648-649-650-651-652-653-654-655-656-657-658-659-660-661-662-663-664-665-666-667-668-669-670-671-672-673-674-675-676-677-678-679-680-681-682-683-684-685-686-687-688-689-690-691-692-693-694-695-696-697-698-699-700-701-702-703-704-705-706-707-708-709-710-711-712-713-714-715-716-717-718-719-720-721-722-723-724-725-726-727-728-729-730-731-732-733-734-735-736-737-738-739-740-741-742-743-744-745-746-747-748-749-750-751-752-753-754-755-756-757-758-759-760-761-762-763-764-765-766-767-768-769-770-771-772-773-774-775-776-777-778-779-780-781-782-783-784-785-786-787-788-789-790-791-792-793-794-795-796-797-798-799-800-801-802-803-804-805-806-807-808-809-810-811-812-813-814-815-816-817-818-819-820-821-822-823-824-825-826-827-828-829-830-831-832-833-834-835-836-837-838-839-840-841-842-843-844-845-846-847-848-849-850-851-852-853-854-855-856-857-858-859-860-861-862-863-864-865-866-867-868-869-870-871-872-873-874-875-876-877-878-879-880-881-882-883-884-885-886-887-888-889-890-891-892-893-894-895-896-897-898-899-900-901-902-903-904-905-906-907-908-909-910-911-912-913-914-915-916-917-918-919-920-921-922-923-924-925-926-927-928-929-930-931-932-933-934-935-936-937-938-939-940-941-942-943-944-945-946-947-948-949-950-951-952-953-954-955-956-957-958-959-960-961-962-963-964-965-966-967-968-969-970-971-972-973-974-975-976-977-978-979-980-981-982-983-984-985-986-987-988-989-990-991-992-993-994-995-996-997-998-999-1000-1001-1002-1003-1004-1005-1006-1007-1008-1009-1010-1011-1012-1013-1014-1015-1016-1017-1018-1019-1020-1021-1022-1023-1024-1025-1026-1027-1028-1029-1030-1031-1032-1033-1034-1035-1036-1037-1038-1039-1040-1041-1042-1043-1044-1045-1046-1

1	TGGCTTGCACCCCAACCCCAAGCCTGCGAAGACGGGGGAGGGCGTGGTGGTGGCTCCCTCCTGCCCGGGCTGGCTTCCGGGTGGAG	91
92	GCGGTGCCTCTCCGGCAAGGCAGACCAGCCTGGGCGGACCGCGCGCGGGGGCTAGGGAAGCCGGGGGGCTCGCGCTCGGGCCCGG	183
184	GCGGGGACTGACAGCGGGCGGGGGGGGGGAGCGGCTCCAAGGCGAGCGTGGTCCCCGGCTCGGCACAAGCTCGCCCGCGGCGAGGACCCA	275
278	CGGACACCGGGCGCGGGGGGACACACAGACCGGGAGATCGGGCTCTACGGCGCTACTCAGCGCAGGAGCTCCCATCCCTGGGCGGAGCGG	367
388	GGCGGGGACTCGCGGCTCGCGGCGCTCCCCGGGAGTCTGCGCGGGGACAGCGCGAGCGCGGGCGGGCGGGAGGCGGCTGGGTGAGCA	459
1		
480	Met Arg Gly Gly Arg His Trp Pro Glu Pro Pro Cys Arg GCCTGTAGACACCTGGGGTTGACGAGTGGCGGCTGTGA ATG AGA GGC GGG CGG CAC TGG CCC GAG CGG CCT TGC AGG	536
14	Leu Arg Ser Val Met Ala Ser Ile Ala Gln Val Ser Leu Ala Ala Leu Leu Leu Leu Pro Met Ala Thr	36
537	CTG AGA AGC GTC ATG GCC AGC ATC GCG CAG GTC TCC CTG GCT GCT GTC GTC GTC GTC CCT ATG GCC ACC	605
37	Ala Met His Ser Asp Cys Ile Phe Lys Lys Glu Gln Ala Met Cys Leu Glu Lys Ile Gln Arg Val Asn	59
606	GCC ATG CAT TCC GAC TGC ATC TTC AAG AAG GAG CAA GCC ATG TGC CTG GAG AAG ATC CAG AGG GTG AAT	674
60	Asp Leu Met Gly Leu Asn Asp Ser Ser Pro Gly Cys Pro Gly Met Trp Asp Asn Ile Thr Cys Trp Lys	82
675	GAC CTG ATG GGC TTG AAT GAC TCC TCC CCA GGG TGC CCT GGG ATG TGG GAC AAC ATC ACG TGT TGG AAG	743
83	Pro Ala His Val Gly Glu Met Val Leu Val Ser Cys Pro Glu Leu Phe Arg Ile Phe Asn Pro Asp Gln	105
744	CCC GCC CAC GTG GGT GAG ATG GTC GTG GTC AGT TGC CGT GAA GTC TTC CGA ATC TTC AAC CCA GAC CAA	812
108	Val Trp Glu Thr Glu Thr Ile Gly Glu Phe Gly Phe Ala Asp Ser Lys Ser Leu Asp Leu Ser Asp Met	128
813	GTC TGG GAG ACG GAA ACC ATC GGA GAG TTC GGT TTT GCA GAC ATG AAA TCC TTG GAT GTC TCA GAC ATG	881
129	Arg Val Val Ser Arg Asn Cys Thr Glu Asp Gly Trp Ser Glu Pro Phe Pro His Tyr Phe Asp Ala Cys	151
882	AGG GTG GTG AGC CGG AAT CCG CAC AGC GAG GAT GGA TGG TCA GAG CCA TTC CCT CAT TAT TTC GAT GCC TGT	950
152	Gly Phe Glu Glu Tyr Glu Ser Glu Thr Gly Asp Gln Asp Tyr Tyr Tyr Tyr Leu Ser Val Lys Ala Leu Tyr	174
951	GGG TTT GAG GAG TAC GAA TCT GAG ACT GGG GAC CAG GAT TAC TAC TAC TAC CTG TCA GTG AAG GCC CTG TAC	1019
175	Thr Val Gly Tyr Ser Thr Ser Leu Val Thr Leu Thr Thr Ala Met Val Ile Leu Cys Arg Phe Arg Lys	197
1020	ACA GTT GGC TAC AGC ACG TCC CTC GTC ACC CTC ACC ACT GCC ATG GTC ATC CTG TGT CGT TTC CGG AAG	1088
198	Leu His Cys Thr Arg Asn Phe Ile His Met Asn Leu Phe Val Ser Phe Met Leu Arg Ala Ile Ser Val	220
1089	CTG CAC TGC ACC CGC AAC TTC ATC CAC ATG AAC CTC TTC GTG TCG TTT ATG CTG AGG GCC ATC TCC GTC	1157
221	Phe Ile Lys Asp Trp Ile Leu Tyr Ala Glu Gln Asp Ser Asn His Cys Phe Val Ser Thr Val Glu Cys	243
1158	TTC ATC AAA GAC TGG ATC CTC TAT GCT GAG CAG GAC AGC AAT CAC TGC TTT GTC TCC ACT GTG GAA TGC	1226
244	Lys Ala Val Met Val Phe Phe His Tyr Cys Val Val Ser Asn Tyr Phe Trp Leu Phe Ile Glu Gly Leu	256
1227	AAG GCT GTG ATG GTT TTC TTC CAC TAC TGT TTT GTA TCC AAC TAC TTC TGG CTG TTT ATC GAG GGC GTG	1295
267	Tyr Leu Phe Thr Leu Leu Val Glu Thr Phe Phe Pro Glu Arg Arg Tyr Phe Tyr Trp Tyr Ile Ile Ile	289
1296	TAT CTC TTC ACC CTC CTC GTG GAG ACC TTC TTC CCC GAG AGG AGA TAT TTC TAC TGG TAC ATC ATC ATT	1364
290	Gly Trp Gly Thr Pro Thr Val Cys Val Ser Val Trp Ala Met Leu Arg Leu Tyr Phe Asp Asp Thr Gly	312
1365	GGC TGG GGG ACA CCA ACT GTG TGT GTG TCT GTG TGG GCT ATG CTG AGG CTC TAC TTC GAT GAC ACA GCC	1433
313	Cys Trp Asp Met Asn Asp Asn Thr Ala Leu Trp Trp Val Ile Lys Gly Pro Val Val Gly Ser Ile Met	335
1434	TGC TGG GAT ATG AAT GAC AAC ACG GCT CTG TGG TGG GTG ATC AAA GGC CCT GTA GTT GGC TCC ATA ATG	1502
338	Val Asn Phe Val Leu Phe Ile Gly Ile Ile Val Ile Leu Val Gln Lys Leu Gln Ser Pro Asp Met Gly	358
1503	GTT AAT TTT GTG GTC TTC ATC GGC ATC ATT GTC ATC CTT GTG CAG AAA CTT CAG TCT CCA GAC ATG GGA	1571
359	Gly Asn Glu Ser Ser Ile Tyr Phe Ser Cys Val Gln Lys Cys Tyr Cys Lys Pro Gln Arg Ala Gln Gln	381
1572	GGC AAC GAG TCC AGC ATC TAC TTC AGC TGC GTG CAG AAA TGC TAC TGC AAG CCA CAG CGG GCT CAG CAG	1640
382	His Ser Cys Lys Met Ser Glu Leu Ser Thr Ile Thr Leu Arg Leu Ala Arg Ser Thr Leu Leu Ile	404
1541	CAC TCT TGC AAG ATG TCA GAA CTG TCC ACC ATT ACT CTA CGG CTC GCC AGG TCC ACC TTG CTG CTC ATC	1709
403	Pro Leu Phe Gly Ile His Tyr Thr Val Phe Ala Phe Ser Pro Glu Asn Val Ser Lys Arg Glu Arg Leu	427
1710	CCA CTC TTT GGA ATC CAC TAC ACT GTC TTT GCT TTC TCC CCG GAG AAC GTC ACC AAG AGG GAG AGA CTG	1778
428	Val Phe Glu Leu Gly Leu Gly Ser Phe Gln Gly Phe Val Val Ala Val Leu Tyr Cys Phe Leu Asn Gly	450
1779	GTG TTT GAG GTC GGT GTC GGC TCC TTC CAG GGC TTT GTG GTG GCT GTT CTC TAT TGC TTT GTG AAT GGA	1847
451	Glu Val Gln Ala Glu Ile Lys Arg Lys Trp Arg Ser Trp Lys Val Asn Arg Tyr Phe Thr Met Asp Phe	473
1848	GAG GTG CAG GCG GAG ATC AAG AGG AAG TGG CGG AGC TGG AAG GTG AAC CGC TAC TTC ACC ATG GAC TTC	1916
474	Lys His Arg His Pro Ser Leu Ala Ser Ser Gly Val Asn Gly Gly Thr Gln Leu Ser Ile Leu Ser Lys	496
1917	AAG CAC CGG CAC CCA TCC CTG GCC AGC AGC GGG GTG AAC GGG GGC ACC CAG CTC TCC ATC CTG AGC AAG	1985
497	Ser Ser Ser Gln Ile Arg Met Ser Gly Leu Pro Ala Asp Asn Leu Ala Thr	513
1986	AGC AGC TCC CAG ATC CGC ATG TCT GGG CTT CCG GCC GAC AAC CTG GCC ACC TGA GCCCACCCTGCCCGCTCCTC	2059
2060	TCCTGTGTACCGAGGCTGGGGCTGTGGTGGGGCGCGGGCCACGCATGTTGTGCTCTTCTGCGCTTGGGCAAGGCCCCGGGCTGGGGCGCT	2151
2152	GGCCCCGAGGTTGGAGAAGGATCGCGGACAGGCAGCTGTTTAGCCTTCTGTTTTGGCGCTGGCCCAACCACCGTGGGTCCCTGGGCTGCG	2243
2244	ACCCAGACATGTAATACTCCTTAATTGGGAAGTCATCCATTCTTTCGCTTTCGCAAGTCCTTGCTTATTAAAGAGGTTCAAGTCACCTACCGCA	2335
2336	ATTGAGAAGCTTAAGTAACCACTAACCACCGTGACTCGGTGGGAGGCTCCCATGGGCTGAGCTACTGAGTTGGCTTTGGGGCGCTTGGGCT	2427
2428	GGGGCCCTCCTTAAAGCCCCCGCTGAAATTTGTCGGAGCTCAAAAGTGAGCTCCTTGAGTCTACTCGCCACCCCGCTGGCCCTTTGCAGGCC	2519
2520	TGGTCCAGTCACCCGAGGTTACTGGAAGTCAGAGCTTGGATGGCCAGACAGCTTTTGGCAGAGGAGAGCCCATGCTCAGCCCAACATTTTAGTG	2611
2612	TCCAGGTGCCCAGGTGCCCAGGTGCCCAGCTCCTGGGCATCAGACAGTGGGAAAGCTCAGGGATCTACCATTCAGAGACTTCAGTTTGGAT	2703
2704	GTAGGGCTAAGGCCAGAGAAAAAGTCTGGAGCTTTTCATTTGGCCCAAGAAAAAAGTCCCAAGATCCAGAAAAAGTGGATCTGAGTGGAAATT	2795
2796	AGATGCAAAAGAGCTTGGAG	2811

Fig. 3

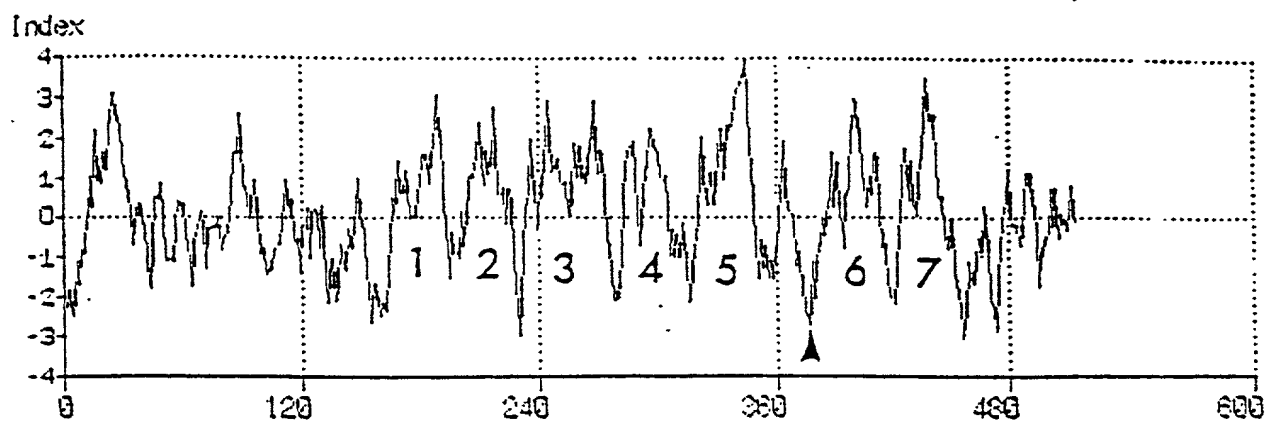
[illegible]

Fig. 4

	1		5		10	
Bovine cDNA	Met	His	Ser	Asp	Cys	Ile Phe Lys Lys Glu Gln
	*	*	*	*	*	* * * *
Purified bovine Sample	Met	His	Ser	Asp	Cys	Ile Phe Lys Lys Glu Gln
	15		20		25	
Ala Met Cys Leu Glu Lys Ile Gln Arg Val Asn Asp Leu Met						
* * *	*	*	*	*	*	* * *
Ala Met Cys Leu Glu Lys Ile Gln Arg Val Asn Asp Leu Met						
Gly Leu Asn Asp						
* * *	*					
Gly Leu Asn Asp						

Fig. 5

A



B

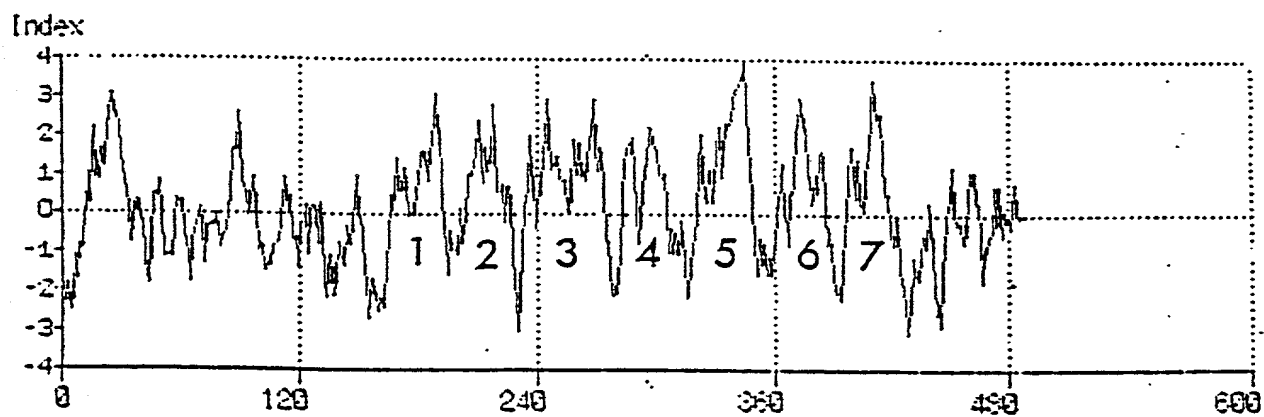


Fig. 6

100 bp

pRPACAPR 18



pRPACAPR 46



pRPACAPR 5



pRPACAPR 12



Fig. 7

1	CGAGTGGACAGTGGCAGGCGGTGACTGAATCTCCAAGTCTGGAAACAATAGCCAGAGA	58
59	TAGTGGCTGGGAAGCACCATGGCCAGAGTCCTGCAGCTCTCCCTGACTGCTCTCCTGCTG	118
1	MetAlaArgValLeuGlnLeuSerLeuThrAlaLeuLeuLeu	14
119	CCTGTGGCTATTGCTATGCACTCTGACTGCATCTTCAAGAAGGAGCAAGCCATGTGCCTG	178
15	ProValAlaIleAlaMethHisSerAspCysIlePheLysLysGluGlnAlaMetCysLeu	34
179	GAGAGGATCCAGAGGGCCAACGACCTGATGGGACTAAACGAGTCTTCCCCAGGTTGCCCT	238
35	GluArgIleGlnArgAlaAsnAspLeuMetGlyLeuAsnGluSerSerProGlyCysPro	54
239	GGCATGTGGGACAATATCACATGTTGGAAGCCAGCTCAAGTAGGTGAGATGGTCCTTGTA	298
55	GlyMetTrpAspAsnIleThrCysTrpLysProAlaGlnValGlyGluMetValLeuVal	74
299	AGCTGCCCTGAGGTCTTCCGGATCTTCAACCCGGACCAAGTCTGGATGACAGAAACCATA	358
75	SerCysProGluValPheArgIlePheAsnProAspGlnValTrpMetThrGluThrIle	94
359	GGAGATTCTGGTTTTTGGCGATAGTAATTCCTTGGAGATCACAGACATGGGGGTCTGTTGGC	418
95	GlyAspSerGlyPheAlaAspSerAsnSerLeuGluIleThrAspMetGlyValValGly	114
419	CGGAAGTGCACAGAGGACGGCTGGTCGGAGCCCTTCCCCACTACTTCGATGCTTGTGGG	478
115	ArgAsnCysThrGluAspGlyTrpSerGluProPheProHisTyrPheAspAlaCysGly	134
479	TTTGATGATTATGAGCCTGAGTCTGGAGATCAGGATTATTACTACCTGTCGGTGAAGGCT	538
135	PheAspAspTyrGluProGluSerGlyAspGlnAspTyrTyrTyrLeuSerValLysAla	154
539	CTCTACACAGTCGGCTACAGCACTTCCCTCGCCACCCTCACTACTGCCATGGTCATCTTG	598
155	LeuTyrThrValGlyTyrSerThrSerLeuAlaThrLeuThrThrAlaMetValIleLeu	174
599	TGCCGCTTCCGGAAGCTGCATTGCACTCGCAACTTCATCCACATGAACCTGTTTGTATCC	658
175	CysArgPheArgLysLeuHisCysThrArgAsnPheIleHisMetAsnLeuPheValSer	194
659	TTCATGCTGAGGGCTATCTCCGTCTTCATCAAGGACTGGATCTTGTACGCCGAGCAGGAC	718
195	PheMetLeuArgAlaIleSerValPheIleLysAspTrpIleLeuTyrAlaGluGlnAsp	214
719	AGCAGTCACTGCTTTCGTTTCCACCGTGGAGTGCAAAGCTGTCATGGTTTTCTTCCACTAC	778
215	SerSerHisCysPheValSerThrValGluCysLysAlaValMetValPhePheHisTyr	234
779	TGCGTGGTGTCCAAGTACTTCTGGCTGTTCATTGAAGGCCTGTACCTCTTTACACTGCTG	838
235	CysValValSerAsnTyrPheTrpLeuPheIleGluGlyLeuTyrLeuPheThrLeuLeu	254
839	GTGGAGACCTTCTTCCCTGAGAGGAGATATTTCTACTGGTACACCATCATCGGCTGGGGG	898
255	ValGluThrPhePheProGluArgArgTyrPheTyrTrpTyrThrIleIleGlyTrpGly	274
899	ACACCTACTGTGTGTGTAACAGTGTGGGCTGTGCTGAGGCTCTATTTTGATGATGCAGGA	958
275	ThrProThrValCysValThrValTrpAlaValLeuArgLeuTyrPheAspAspAlaGly	294
959	TGCTGGGATATGAATGACAGCACAGCTCTGTGGTGGGTGATCAAAGGCCCGTGGTTGGC	1018
295	CysTrpAspMetAsnAspSerThrAlaLeuTrpTrpValIleLysGlyProValValGly	314
1019	TCTATAATGGTTAACTTTGTGCTTTTCATCGGCATCATCATCCTTGTACAGAAGCTG	1078
315	SerIleMetValAsnPheValLeuPheIleGlyIleIleIleIleLeuValGlnLysLeu	334
1079	CAGTCCCCAGACATGGGAGGCAACGAGTCCAGCATCTACTTACGGCTGGCCCGCTCCACC	1138
335	GlnSerProAspMetGlyGlyAsnGluSerSerIleTyrLeuArgLeuAlaArgSerThr	354

Fig. 8

1139 C T A C T G C T C A T C C C A C T C T T C G G A A T C C A C T A C A C A G T A T T C G C C T T C T C T C C A G A G A A C 1198
 355 L e u L e u L e u I l e P r o L e u P h e G l y I l e H i s T y r T h r V a l P h e A l a P h e S e r P r o G l u A s n 374

1199 G T C A G C A A G A G G G A A G A C T T G T G T T T G A G C T T G G G C T G G G C T C C T T C C A G G G C T T T G T G 1258
 375 V a l S e r L y s A r g G l u A r g L e u V a l P h e G l u L e u G l y L e u G l y S e r P h e G l n G l y P h e V a l 394

1259 G T G G C T G T A C T C T A C T G C T T C C T G A A T G G G G A G G T A C A G G C A G A G A T T A A G A G G A A A T G G 1318
 395 V a l A l a V a l L e u T y r C y s P h e L e u A s n G l y G l u V a l G l n A l a G l u I l e L y s A r g L y s T r p 414

1319 A G G A G C T G G A A G G T G A A C C G T T A C T T C A C T A T G G A C T T C A A G C A C C G G C A C C C G T C C C T G 1378
 415 A r g S e r T r p L y s V a l A s n A r g T y r P h e T h r M e t A s p P h e L y s H i s A r g H i s P r o S e r L e u 434

1379 G C C A G C A G T G G A G T A A A T G G G G G A A C C C A G C T G T C C A T C C T G A G C A A G A G C A G C T C C C A G 1438
 435 A l a S e r S e r G l y V a l A s n G l y G l y T h r G l n L e u S e r I l e L e u S e r L y s S e r S e r S e r G l n 454

1439 C T C C G C A T G T C C A G C C T C C C G G C C G A C A A C T T G G C C A C C T G A G G C C T G T C T C C C T C C T C C 1498
 455 L e u A r g M e t S e r S e r L e u P r o A l a A s p A s n L e u A l a T h r *** 467

1499 T T C T G C A C A G G C T G G G G C T G C G G G C C A G T G C C T G A G C A T G T T T G T G C C T C T C C C C T C T C C 1558
 1559 T T G G G C A G G C C C T G G G T A G G A A G C T G G G C T C C T C C C C A A G G G G A A G A G A G A T A G G G T 1618
 1619 A T A G G C T G A T A T T G C T C C T C C T G T T T G G G T C C C A C C T A C T G T G A T T C A T T G A G C C T G A T T 1678
 1679 T G A C A T G T A A A T A C A C C T C A A A T T T G G A A G T T G C C C C A T C T C T G C C C C C A A C C C A T G C C 1738
 1739 C C T G C T C A C C T C T G C C A G G C C C C A G C T C A A C C T A C T G T G T C A A G G C C A G C C T C A G T G A T A 1798
 1799 G T C T G A T C C C A G G T A C A A G G C C T T G T G A G C T G A G G C T G A A A G G C C T G T T T T G G A G A G G C T 1858
 1859 G G G G T A G T G C C 1869

Fig. 9

1	CGAGTGGACAGTGGCAGGCGGTGACTGAATCTCCAAGTCTGGAAACAATAGCCAGAGA	58
59	TAGTGGCTGGGAAGCACCATGGCCAGAGTCCTGCAGCTCTCCCTGACTGCTCTCCTGCTG	118
1	MetAlaArgValLeuGlnLeuSerLeuThrAlaLeuLeuLeu	14
119	CCTGTGGCTATTGCTATGCACTCTGACTGCATCTTCAAGAAGGAGCAAGCCATGTGCCTG	178
15	ProValAlaIleAlaMethisSerAspCysIlePheLysLysGluGlnAlaMetCysLeu	34
179	GAGAGGATCCAGAGGGCCAACGACCTGATGGGACTAAACGAGTCTTCCCCAGGTTGCCCT	238
35	GluArgIleGlnArgAlaAsnAspLeuMetGlyLeuAsnGluSerSerProGlyCysPro	54
239	GGCATGTGGGACAATATCACATGTTGGAAGCCAGCTCAAGTAGGTGAGATGGTCCTTGTA	298
55	GlyMetTrpAspAsnIleThrCysTrpLysProAlaGlnValGlyGluMetValLeuVal	74
299	AGCTGCCCTGAGGTCTTCCGGATCTTCAACCCGGACCAAGTCTGGATGACAGAAACCATA	358
75	SerCysProGluValPheArgIlePheAsnProAspGlnValTrpMetThrGluThrIle	94
359	GGAGATTCTGGTTTTGCCGATAGTAATTCCTTGGAGATCACAGACATGGGGGTCGTGGGC	418
95	GlyAspSerGlyPheAlaAspSerAsnSerLeuGluIleThrAspMetGlyValValGly	114
419	CGGAAGTGCACAGAGGACGGCTGGTCCGAGCCCTTCCCCACTACTTCGATGCTTGTGGG	478
115	ArgAsnCysThrGluAspGlyTrpSerGluProPheProHisTyrPheAspAlaCysGly	134
479	TTTGATGATTATGAGCCTGAGTCTGGAGATCAGGATTATTACTACCTGTCCGGTGAAGGCT	538
135	PheAspAspTyrGluProGluSerGlyAspGlnAspTyrTyrTyrLeuSerValLysAla	154
539	CTCTACACAGTCGGCTACAGCACTTCCCTCGCCACCCTCACTACTGCCATGGTCATCTTG	598
155	LeuTyrThrValGlyTyrSerThrSerLeuAlaThrLeuThrThrAlaMetValIleLeu	174
599	TGCCGCTTCCGGAAGCTGCATTGCACTCGCAACTTCATCCACATGAACCTGTTTGTATCC	658
175	CysArgPheArgLysLeuHisCysThrArgAsnPheIleHisMetAsnLeuPheValSer	194
659	TTCATGCTGAGGGCTATCTCCGTCTTCATCAAGGACTGGATCTTGTACGCCGAGCAGGAC	718
195	PheMetLeuArgAlaIleSerValPheIleLysAspTrpIleLeuTyrAlaGluGlnAsp	214
719	AGCAGTCACTGCTTCGTTTCCACCGTGGAGTGCAAAGCTGTCATGGTTTTCTTCCACTAC	778
215	SerSerHisCysPheValSerThrValGluCysLysAlaValMetValPhePheHisTyr	234
779	TGCGTGGTGTCCAACTACTTCTGGCTGTTTCATTGAAGGCCTGTACCTCTTTACACTGCTG	838
235	CysValValSerAsnTyrPheTrpLeuPheIleGluGlyLeuTyrLeuPheThrLeuLeu	254
839	GTGGAGACCTTCTTCCCTGAGAGGAGATATTTCTACTGGTACACCATCATCGGCTGGGGG	898
255	ValGluThrPhePheProGluArgArgTyrPheTyrTrpTyrThrIleIleGlyTrpGly	274
899	ACACCTACTGTGTGTGTAACAGTGTGGGCTGTGCTGAGGCTCTATTTTGATGATGCAGGA	958
275	ThrProThrValCysValThrValTrpAlaValLeuArgLeuTyrPheAspAspAlaGly	294
959	TGCTGGGATATGAATGACAGCACAGCTCTGTGGTGGGTGATCAAAGGCCCCGTGGTTGGC	1018
295	CysTrpAspMetAsnAspSerThrAlaLeuTrpTrpValIleLysGlyProValValGly	314
1019	TCTATAATGGTTAACTTTGTGCTTTTCATCGGCATCATCATCCTTGTACAGAAGCTG	1078
315	SerIleMetValAsnPheValLeuPheIleGlyIleIleIleIleLeuValGlnLysLeu	334
1079	CAGTCCCCAGACATGGGAGGCAACGAGTCCAGCATCTACTTCAGCTGCGTGCAGAAATGC	1138
335	GlnSerProAspMetGlyGlyAsnGluSerSerIleTyrPheSerCysValGlnLysCys	354

Fig. 10

1139 TACTGCAAGCCACAGCGGGCTCAGCAGCACTCTTGCAAGATGTCAGAACTATCCACCATT 1198
 355 TyrCysLysProGlnArgAlaGlnGlnHisSerCysLysMetSerGluLeuSerThrIle 374

1199 ACTCTACGGCTGGCCCCGCTCCACCCTACTGCTCATCCCCTCTTCGGAATCCACTACACA 1258
 375 ThrLeuArgLeuAlaArgSerThrLeuLeuLeuIleProLeuPheGlyIleHisTyrThr 394
 △

1259 GTATTGCGCTTCTCTCCAGAGAACGTCAGCAAGAGGGAAAGACTTGTGTTTGAGCTTGGG 1318
 395 ValPheAlaPheSerProGluAsnValSerLysArgGluArgLeuValPheGluLeuGly 414

1319 CTGGGCTCCTTCCAGGGCTTTGTGGTGGCTGTACTCTACTGCTTCCTGAATGGGGAGGTA 1378
 415 LeuGlySerPheGlnGlyPheValValAlaValLeuTyrCysPheLeuAsnGlyGluVal 434

1379 CAGGCAGAGATTAAGAGGAAATGGAGGAGCTGGAAGGTGAACCGTTACTTCACTATGGAC 1438
 435 GlnAlaGluIleLysArgLysTrpArgSerTrpLysValAsnArgTyrPheThrMetAsp 454

1439 TTCAAGCACCGGCACCCGTCCCTGGCCAGCAGTGGAGTAAATGGGGGAACCCAGCTGTCC 1498
 455 PheLysHisArgHisProSerLeuAlaSerSerGlyValAsnGlyGlyThrGlnLeuSer 474

1499 ATCCTGAGCAAGAGCAGCTCCCAGCTCCGCATGTCCAGCCTCCCGGCCGACAACCTTGGCC 1558
 475 IleLeuSerLysSerSerSerGlnLeuArgMetSerSerLeuProAlaAspAsnLeuAla 494

1559 ACCTGAGGCCTGTCTCCCTCCTCCTTCTGCACAGGCTGGGGCTGCGGGCCAGTGCCTGAG 1618
 495 Thr*** 495

1619 CATGTTTGTGCCTCTCCCCCTCTCCTTGGGCAGGCCCTGGGTAGGAAGCTGGGCTCCTCCC 1678
 1679 CAAAGGGGAAGAGAGAGATAGGGTATAGGCTGATATTGCTCCTCCTGTTTGGGTCCCACC 1738
 1739 TACTGTGATTCATTGAGCCTGATTTGACATGTAAATACACCTCAAATTTGGAAAGTTGCC 1798
 1799 CCATCTCTGCCCCCAACCCATGCCCCCTGCTCACCTCTGCCAGGCCCCAGCTCAACCTACT 1858
 1859 GTGTCAAGGCCAGCCTCAGTGATAGTCTGATCCCAGGTACAAGGCCTTGTGAGCTGAGGC 1918
 1919 TGAAAGGCCTGTTTTGGAGAGGCTGGGGTAGTGCCCAACCCAGCAGCCTTTCAGCAAATT 1978
 1979 GACTTTGGATGTGGACCCTTCTCAGCCTGTACCAAGTACTGCAGTTGGCTAGGGATGCAG 2038
 2039 CTCAGTTTCCTGAGCATCCTTTGGAGCAGGTCAACCTGAGGCTCCTTTTGCTTACCCGAC 2098
 2099 ATCTAAGTTGTCCAGGTGCTCGGCTCCTGTGTGCCTGGATGACGGGAGGGCTCCGGGGTC 2158
 2159 TTTCAGTCAAAGACTTACATTGAGGTGGGGTGAGAGTCAGAGAAAAGTTCTGGTGCTTTT 2218
 2219 CATTTGTTCTAAGAGCTGAGAGCCAGGAATGCAGAGTCAATTGGGAAGGAGATGGGATAG 2278
 2279 CTGATGATCTTACCATGTCCATGACTGTGCCCCCTGATTCAAGACCGGATCATGTGGTGGC 2338
 2339 TTTATTTCTACACTTCTTGTCCACAATGGACAGTCTGAGGAAGCTCTTCTTTTCAGCCACA 2398
 2399 ACAACCACAGAAAGCCCTTTCTTCTCCCCCTCTTGTTCCTCATAAGTCAAAGCCATGTTT 2458
 2459 AGAACGGACCAGCCACCTTCCGATGAAATCACTGAGTTCTGAAGCAACTTTCAATTTCCA 2518
 2519 CGAGCCAAGTCCTGGGTCCAGGGACGCCCC 2548

Fig. 11

Rat	Met	His	Ser	Asp	Cys	Ile	Phe	Lys	Lys	Glu	Gln	Ala	Met	Cys	Leu	Glu
	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Bovine	Met	His	Ser	Asp	Cys	Ile	Phe	Lys	Lys	Glu	Gln	Ala	Met	Cys	Leu	Glu
	1				5					10						15

Rat	Arg	Ile	Gln	Arg	Ala	Asn	Asp	Leu	Met	Gly	Leu	Asn	Glu
	*	*	*			*	*	*	*	*	*	*	
Bovine	Lys	Ile	Gln	Arg	Val	Asn	Asp	Leu	Met	Gly	Leu	Asn	Asp

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25

(The following names are those appearing in the original document.)

Fig. 12

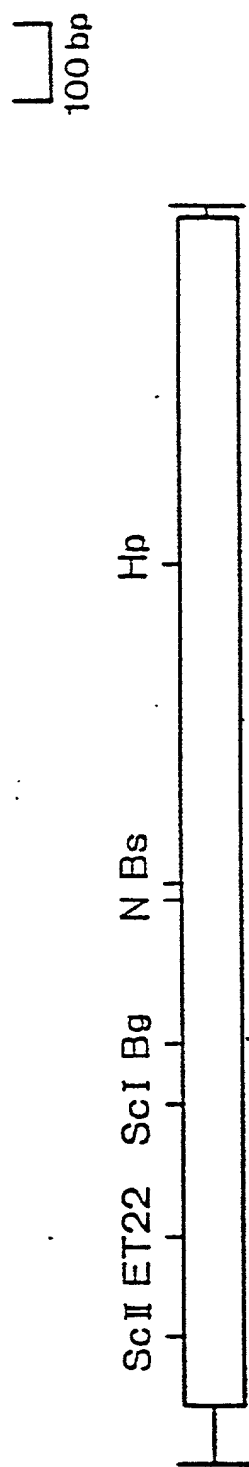


Fig. 13

1	AGCCCAGAGACACATTGGGGCTGACCTGCCGCTGCTGTCACTGGGAGGCCAGTGGTGCTGGCCAAAGAGTGTCT	ATG Met	76 1
77 2	GCT GGT GTC GTG CAC GTT TCC CTG GCT GCT CAC TGC GGG GCC TGT CCG TGG GGC CGG GGC Ala Gly Val Val His Val Ser Leu Ala Ala His Cys Gly Ala Cys Pro Trp Gly Arg Gly		136 21
137 22	AGA CTC CGC AAA GGA CGC GCA GCC TGC AAG TCC GCG GCC CAG AGA CAC ATT GGG GCT GAC Arg Leu Arg Lys Gly Arg Ala Ala Cys Lys Ser Ala Ala Gln Arg His Ile Gly Ala Asp		196 41
197 42	CTG CCG CTG CTG TCA GTG GGA GGC CAG TGG TGC TGG CCA AGA AGT GTC ATG GCT GGT GTC Leu Pro Leu Leu Ser Val Gly Gly Gln Trp Cys Trp Pro Arg Ser Val Met Ala Gly Val		256 61
257 62	GTG CAC GTT TCC CTG GCT GCT CTC CTC CTG CTG CCT ATG GCC CCT GCC ATG CAT TCT GAC Val His Val Ser Leu Ala Ala Leu Leu Leu Leu Pro Met Ala Pro Ala Met His Ser Asp		316 81
317 82	TGC ATC TTC AAG AAG GAG CAA GCC ATG TGC CTG GAG AAG ATC CAG AGG GCC AAT GAG CTG Cys Ile Phe Lys Lys Glu Gln Ala Met Cys Leu Glu Lys Ile Gln Arg Ala Asn Glu Leu		376 101
377 102	ATG GGC TTC AAT GAT TCC TCT CCA GGC TGT CCT GGG ATG TGG GAC AAC ATC ACG TGT TGG Met Gly Phe Asn Asp Ser Ser Pro Gly Cys Pro Gly Met Trp Asp Asn Ile Thr Cys Trp		436 121
437 122	AAG CCC GCC CAT GTG GGT GAG ATG GTC CTG GTC AGC TGC CCT GAG CTC TTC CGA ATC TTC Lys Pro Ala His Val Gly Glu Met Val Leu Val Ser Cys Pro Glu Leu Phe Arg Ile Phe		496 141
497 142	AAC CCA GAC CAA GTC TGG GAG ACC GAA ACC ATT GGA GAG TCT GAT TTT GGT GAC AGT AAC Asn Pro Asp Gln Val Trp Glu Thr Glu Thr Ile Gly Glu Ser Asp Phe Gly Asp Ser Asn		556 161
557 162	TCC TTA GAT CTC TCA GAC ATG GGA GTG GTG AGC CGG AAC TGC ACG GAG GAT GGC TGG TCG Ser Leu Asp Leu Ser Asp Met Gly Val Val Ser Arg Asn Cys Thr Glu Asp Gly Trp Ser		616 181
617 182	GAA CCC TTC CCT CAT TAC TTT GAT GCC TGT GGG TTT GAT GAA TAT GAA TCT GAG ACT GGG Glu Pro Phe Pro His Tyr Phe Asp Ala Cys Gly Phe Asp Glu Tyr Glu Ser Glu Thr Gly		676 201
677 202	GAC CAG GAT TAT TAC TAC CTG TCA GTG AAG GCC CTC TAC ACG GTT GGC TAC AGC ACA TCC Asp Gln Asp Tyr Tyr Tyr Leu Ser Val Lys Ala Leu Tyr Thr Val Gly Tyr Ser Thr Ser		736 221
737 222	CTC GTC ACC CTC ACC ACT GCC ATG GTC ATC CTT TGT CGC TTC CGG AAG CTG CAC TGC ACA Leu Val Thr Leu Thr Thr Ala Met Val Ile Leu Cys Arg Phe Arg Lys Leu His Cys Thr		796 241
797 242	CGC AAC TTC ATC CAC ATG AAC CTG TTT GTG TCG TTC ATG CTG AGG GCG ATC TCC GTC TTC Arg Asn Phe Ile His Met Asn Leu Phe Val Ser Phe Met Leu Arg Ala Ile Ser Val Phe		856 261
857 262	ATC AAA GAC TGG ATT CTG TAT GCG GAG CAG GAC AGC AAC CAC TGC TTC ATC TCC ACT GTG Ile Lys Asp Trp Ile Leu Tyr Ala Glu Gln Asp Ser Asn His Cys Phe Ile Ser Thr Val		916 281
917 282	GAA TGT AAG GCC GTC ATG GTT TTC TTC CAC TAC TGT GTT GTG TCC AAC TAC TTC TGG CTG Glu Cys Lys Ala Val Met Val Phe Phe His Tyr Cys Val Val Ser Asn Tyr Phe Trp Leu		976 301
977 302	TTC ATC GAG GGC CTG TAC CTC TTC ACT CTG CTG GTG GAG ACC TTC TTC CCT GAA AGG AGA Phe Ile Glu Gly Leu Tyr Leu Phe Thr Leu Leu Val Glu Thr Phe Phe Pro Glu Arg Arg		1036 321
1037 322	TAC TTC TAC TGG TAC ACC ATC ATT GGC TGG GGG ACC CCA ACT GTG TGT GTG ACA GTG TGG Tyr Phe Tyr Trp Tyr Thr Ile Ile Gly Trp Gly Thr Pro Thr Val Cys Val Thr Val Trp		1096 341
1097 342	GCT ACG CTG AGA CTC TAC TTT GAT GAC ACA GGC TGC TGG GAT ATG AAT GAC AGC ACA GCT Ala Thr Leu Arg Leu Tyr Phe Asp Asp Thr Gly Cys Trp Asp Met Asn Asp Ser Thr Ala		1156 361
1157 362	CTG TGG TGG GTG ATC AAA GGC CCT GTG GTT GGC TCT ATC ATG GTT AAC TTT GTG CTT TTT Leu Trp Trp Val Ile Lys Gly Pro Val Val Gly Ser Ile Met Val Asn Phe Val Leu Phe		1216 381
1217 382	ATT GGC ATT ATC GTC ATC CTT GTG CAG AAA CTT CAG TCT CCA GAC ATG GGA GGC AAT GAG Ile Gly Ile Ile Val Ile Leu Val Gln Lys Leu Gln Ser Pro Asp Met Gly Gly Asn Glu		1276 401
1277 402	TCC AGC ATC TAC TTG CGA CTG GCC CGG TCC ACC CTG CTG CTC ATC CCA CTA TTC GGA ATC Ser Ser Ile Tyr Leu Arg Leu Ala Arg Ser Thr Leu Leu Leu Ile Pro Leu Phe Gly Ile		1336 421
1337 422	CAC TAC ACA GTA TTT GCC TTC TCC CCA GAG AAT GTC AGC AAA AGG GAA AGA CTC GTG TTT His Tyr Thr Val Phe Ala Phe Ser Pro Glu Asn Val Ser Lys Arg Glu Arg Leu Val Phe		1396 441
1397 442	GAG CTG GGG CTG GGC TCC TTC CAG GGC TTT GTG GTG GCT GTT CTC TAC TGT TTT CTG AAT Glu Leu Gly Leu Gly Ser Phe Gln Gly Phe Val Val Ala Val Leu Tyr Cys Phe Leu Asn		1456 461
1457 462	GGT GAG GTA CAA GCG GAG ATC AAG CGA AAA TGG CGA AGC TGG AAG GTG AAC CGT TAC TTC Gly Glu Val Gln Ala Glu Ile Lys Arg Lys Trp Arg Ser Trp Lys Val Asn Arg Tyr Phe		1516 481
1517 482	GCT GTG GAC TTC AAG CAC CGA CAC CCG TCT CTG GCC AGC AGT GGG GTG AAT GGG GGC ACC Ala Val Asp Phe Lys His Arg His Pro Ser Leu Ala Ser Ser Gly Val Asn Gly Gly Thr		1576 501
1577 502	CAG CTC TCC ATC CTG AGC AAG AGC AGC TCC CAA ATC CGC ATG TCT GGC CTC CCT GCT GAC Gln Leu Ser Ile Leu Ser Lys Ser Ser Ser Gln Ile Arg Met Ser Gly Leu Pro Ala Asp		1636 521
1637	AAT CTG GCC ACC TGA GCCATGCTCCCCT		1664

	20	25
Human	Glu Lys Ile Gln Arg Ala Asn Glu Leu Met Gly Phe Asn Asp *	* * *
Bovine	Glu Lys Ile Gln Arg Val Asn Asp Leu Met Gly Leu Asn Asp Glu Lys Ile Gln Arg Val Asn Asp Leu Met Gly Leu Asn Asp	*

[illegible]

Type I-B

▲

humanTypeI-B

Type I-B2

Type I-C

Pro Gln Arg Ala Gln Gln His Ser Cys Lys Met Ser Glu Leu Ser⁻ Thr
CCA CAG CGG GCT CAG CAG CAC TCT TGC AAG ATG TCA GAA CTG TCC ACC

Pro Gln Arg Ala Gln Gln His Ser Cys Lys Met Ser Glu Leu Ser Thr
CCA CAG CGG GCT CAG CAG CAC TCT TGC AAG ATG TCA GAA CTG TCC ACC

Lys Ala Arg Glu Asp Pro Leu Pro Val Pro Ser Asp Gln His Ser Leu
AAA GCC CGA GAG GAC CCC CTG CCT GTG CCC TCA GAC CAG CAT TCA CTC

Ile Thr Leu Arg Leu Ala Arg Ser Thr Leu
ATT ACT CTA CGG CTG GCC CGC TCC ACC CTA

Ile Thr Leu Arg Leu Ala Arg Ser Thr Leu
ATT ACT CTG CGA CTG GCC CGG TCC ACC CTG

Ile Thr Leu Arg Leu Ala Arg Ser Thr Leu
ATT ACT CTG CGA CTG GCC CGG TCC ACC CTG

Pro Phe Leu Arg Leu Ala Arg Ser Thr Leu
CCT TTC CTG CGA CTG GCC CGG TCC ACC CTG

Fig. 16

1	A	GCC	CAG	AGA	CAC	ATT	GGG	GCT	GAC	CTG	CCG	CTG	CTG	TCA	GTG	GGA	GGC	CAG	TGG	TGC	TGG	CCA	AGA	67
1		Met	Ala	Gly	Val	Val	His	Val	Val	Leu	Ala	Ala	His	Cys	Gly	Ala	Cys	Pro	Trp	Gly	Arg	Gly		21
68	AGT	GTC	ATG	GCT	GGT	GTC	GTC	GTT	TCC	CTG	GCT	GCT	CAC	TGC	GGG	GCC	TGT	CCG	TGG	GGC	CGG	GGC		136
22	Arg	Leu	Arg	Lys	Gly	Arg	Ala	Ala	Cys	Lys	Ser	Ala	Ala	Gln	Arg	His	Ile	Gly	Ala	Asp	Leu	Pro	Leu	44
137	AGA	CTC	CGC	AAA	GGA	CGC	GCA	GCC	TGC	AAG	TCC	CGC	GCC	CAG	AGA	CAC	ATT	GGG	GCT	GAC	CTG	CCG	CTG	205
45	Leu	Ser	Val	Gly	Gly	Gln	Trp	Cys	Trp	Pro	Arg	Ser	Val	Met	Ala	Gly	Val	Val	His	Val	Ser	Leu	Ala	67
206	CTG	TCA	GTG	GGA	GGC	CAG	TGG	TGC	TGG	CCA	AGA	AGT	GTC	ATG	GCT	GGT	GTC	GTG	CAC	GTT	TCC	CTG	GCT	274
68	Ala	Leu	Leu	Leu	Leu	Pro	Met	Ala	Pro	Ala	Met	His	Ser	Asp	Cys	Ile	Phe	Lys	Lys	Glu	Gln	Ala	Met	90
275	GCT	CTC	CTC	CTG	CTG	CCT	ATG	GCC	CCT	GCC	ATG	CAT	TCT	GAC	TGC	ATC	TTC	AAG	AAG	GAG	CAA	GCC	ATG	343
91	Cys	Leu	Glu	Lys	Ile	Gln	Arg	Ala	Asn	Glu	Leu	Met	Gly	Phe	Asn	Asp	Ser	Ser	Pro	Gly	Cys	Pro	Gly	113
344	TGC	CTG	GAG	AAG	ATC	CAG	AGG	GCC	AAT	GAG	CTG	ATG	GGC	TTC	AAT	GAT	TCC	TCT	CCA	GGC	TGT	CCT	GGG	412
114	Met	Trp	Asp	Asn	Ile	Thr	Cys	Trp	Lys	Pro	Ala	His	Val	Gly	Glu	Met	Val	Leu	Val	Ser	Cys	Pro	Glu	136
413	ATG	TGG	GAC	AAC	ATC	ACG	TGT	TGG	AAG	CCC	GCC	CAT	GTG	GGT	GAG	ATG	GTC	CTG	GTC	AGC	TGC	CCT	GAG	481
137	Leu	Phe	Arg	Ile	Phe	Asn	Pro	Asp	Gln	Val	Trp	Glu	Thr	Glu	Thr	Ile	Gly	Glu	Ser	Asp	Phe	Gly	Asp	159
482	CTC	TTC	CGA	ATC	TTC	AAC	CCA	GAC	CAA	GTC	TGG	GAG	ACC	GAA	ACC	ATT	GGA	GAG	TCT	GAT	TTT	GGT	GAC	550
160	Ser	Asn	Ser	Leu	Asp	Leu	Ser	Asp	Met	Gly	Val	Val	Ser	Arg	Asn	Cys	Thr	Glu	Asp	Gly	Trp	Ser	Glu	182
551	AGT	AAC	TCC	TTA	GAT	CTC	TCA	GAC	ATG	GGA	GTG	GTG	AGC	CGG	AAC	TGC	ACG	GAG	GAT	GGC	TGG	TCG	GAA	619
183	Pro	Phe	Pro	His	Tyr	Phe	Asp	Ala	Cys	Gly	Phe	Asp	Glu	Tyr	Glu	Ser	Glu	Thr	Gly	Asp	Gln	Asp	Tyr	205
620	CCC	TTC	CCT	CAT	TAC	TTT	GAT	GCC	TGT	GGG	TTT	GAT	GAA	TAT	GAA	TCT	GAG	ACT	GGG	GAC	CAG	GAT	TAT	688
206	Tyr	Tyr	Leu	Ser	Val	Lys	Ala	Leu	Tyr	Thr	Val	Gly	Tyr	Ser	Thr	Ser	Leu	Val	Thr	Leu	Thr	Thr	Ala	228
689	TAC	TAC	CTG	TCA	GTG	AAG	GCC	CTC	TAC	ACG	GTT	GGC	TAC	AGC	ACA	TCC	CTC	GTC	ACC	CTC	ACC	ACT	GCC	757
229	Met	Val	Ile	Leu	Cys	Arg	Phe	Arg	Lys	Leu	His	Cys	Thr	Arg	Asn	Phe	Ile	His	Met	Asn	Leu	Phe	Val	251
758	ATG	GTC	ATC	CTT	TGT	CGC	TTC	CGG	AAG	CTG	CAC	TGC	ACA	CGC	AAC	TTC	ATC	CAC	ATG	AAC	CTG	TTT	GTG	826
252	Ser	Phe	Met	Leu	Arg	Ala	Ile	Ser	Val	Phe	Ile	Lys	Asp	Trp	Ile	Leu	Tyr	Ala	Glu	Gln	Asp	Ser	Asn	274
827	TCG	TTC	ATG	CTG	AGG	GCG	ATC	TCC	GTC	TTC	ATC	AAA	GAC	TGG	ATT	CTG	TAT	GCG	GAG	CAG	GAC	AGC	AAC	895
275	His	Cys	Phe	Ile	Ser	Thr	Val	Glu	Cys	Lys	Ala	Val	Met	Val	Phe	Phe	His	Tyr	Cys	Val	Val	Ser	Asn	297
896	CAC	TGC	TTC	ATC	TCC	ACT	GTG	GAA	TGT	AAG	GCC	GTC	ATG	GTT	TTC	TTC	CAC	TAC	TGT	GTT	GTG	TCC	AAC	964
298	Tyr	Phe	Trp	Leu	Phe	Ile	Glu	Gly	Leu	Tyr	Leu	Phe	Thr	Leu	Leu	Val	Glu	Thr	Phe	Phe	Pro	Glu	Arg	320
965	TAC	TTC	TGG	CTG	TTC	ATC	GAG	GGC	CTG	TAC	CTC	TTC	ACT	CTG	CTG	GTG	GAG	ACC	TTC	TTC	CCT	GAA	AGG	1033
321	Arg	Tyr	Phe	Tyr	Trp	Tyr	Thr	Ile	Ile	Gly	Trp	Gly	Thr	Pro	Thr	Val	Cys	Val	Thr	Val	Trp	Ala	Thr	343
1034	AGA	TAC	TTC	TAC	TGG	TAC	ACC	ATC	ATT	GGC	TGG	GGG	ACC	CCA	ACT	GTG	TGT	GTG	ACA	GTG	TGG	GCT	ACG	1102
344	Leu	Arg	Leu	Tyr	Phe	Asp	Asp	Thr	Gly	Cys	Trp	Asp	Met	Asn	Asp	Ser	Thr	Ala	Leu	Trp	Trp	Val	Ile	366
1103	CTG	AGA	CTC	TAC	TTT	GAT	GAC	ACA	GGC	TGC	TGG	GAT	ATG	AAT	GAC	AGC	ACA	GCT	CTG	TGG	TGG	GTG	ATC	1171
367	Lys	Gly	Pro	Val	Val	Gly	Ser	Ile	Met	Val	Asn	Phe	Val	Leu	Phe	Ile	Gly	Ile	Ile	Val	Ile	Leu	Val	389
1172	AAA	GGC	CCT	GTG	GTT	GGC	TCT	ATC	ATG	GTT	AAC	TTT	GTG	CTT	TTT	ATT	GGC	ATT	ATC	GTC	ATC	CTT	GTG	1240
390	Gln	Lys	Leu	Gln	Ser	Pro	Asp	Met	Gly	Gly	Asn	Glu	Ser	Ser	Ile	Tyr	Phe	Ser	Cys	Val	Gln	Lys	Cys	412
1241	CAG	AAA	CTT	CAG	TCT	CCA	GAC	ATG	GGA	GGC	AAT	GAG	TCC	AGC	ATC	TAC	TTC	AGC	TGC	GTG	CAG	AAA	TGC	1309
413	Tyr	Cys	Lys	Pro	Gln	Arg	Ala	Gln	Gln	His	Ser	Cys	Lys	Met	Ser	Glu	Leu	Ser	Thr	Ile	Thr	Leu	Arg	435
1310	TAC	TGC	AAG	CCA	CAG	CGG	GCT	CAG	CAG	CAC	TCT	TGC	AAG	ATG	TCA	GAA	CTG	TCC	ACC	ATT	ACT	CTG	CGA	1378
436	Leu	Ala	Arg	Ser	Thr	Leu	Leu	Leu	Ile	Pro	Leu	Phe	Gly	Ile	His	Tyr	Thr	Val	Phe	Ala	Phe	Ser	Pro	458
1379	CTG	GCC	CGG	TCC	ACC	CTG	CTG	CTC	ATC	CCA	CTA	TTC	GGA	ATC	CAC	TAC	ACA	GTA	TTT	GCC	TTC	TCC	CCA	1447
459	Glu	Asn	Val	Ser	Lys	Arg	Glu	Arg	Leu	Val	Phe	Glu	Leu	Gly	Leu	Gly	Ser	Phe	Gln	Gly	Phe	Val	Val	481
1448	GAG	AAT	GTC	AGC	AAA	AGG	GAA	AGA	CTC	GTG	TTT	GAG	CTG	GGG	CTG	GGC	TCC	TTC	CAG	GGC	TTT	GTG	GTG	1516
482	Ala	Val	Leu	Tyr	Cys	Phe	Leu	Asn	Gly	Glu	Val	Gln	Ala	Glu	Ile	Lys	Arg	Lys	Trp	Arg	Ser	Trp	Lys	504
1517	GCT	GTT	CTC	TAC	TGT	TTT	CTG	AAT	GGT	GAG	GTA	CAA	GCG	GAG	ATC	AAG	CGA	AAA	TGG	CGA	AGC	TGG	AAG	1585
505	Val	Asn	Arg	Tyr	Phe	Ala	Val	Asp	Phe	Lys	His	Arg	His	Pro	Ser	Leu	Ala	Ser	Ser	Gly	Val	Asn	Gly	527
1586	GTG	AAC	CGT	TAC	TTC	GCT	GTG	GAC	TTC	AAG	CAC	CGA	CAC	CCG	TCT	CTG	GCC	AGC	AGT	GGG	GTG	AAT	GGG	1654
528	Gly	Thr	Gln	Leu	Ser	Ile	Leu	Ser	Lys	Ser	Ser	Ser	Gln	Ile	Arg	Met	Ser	Gly	Leu	Pro	Ala	Asp	Asn	550
1655	GGC	ACC	CAG	CTC	TCC	ATC	CTG	AGC	AAG	AGC	AGC	TCC	CAA	ATC	CGC	ATG	TCT	GGC	CTC	CCT	GCT	GAC	AAT	1723
551	Leu	Ala	Thr	***																				553
1724	CTG	GCC	ACC	TGA	GCC	ATG	CTC	CCC	T															1748

Fig. 17

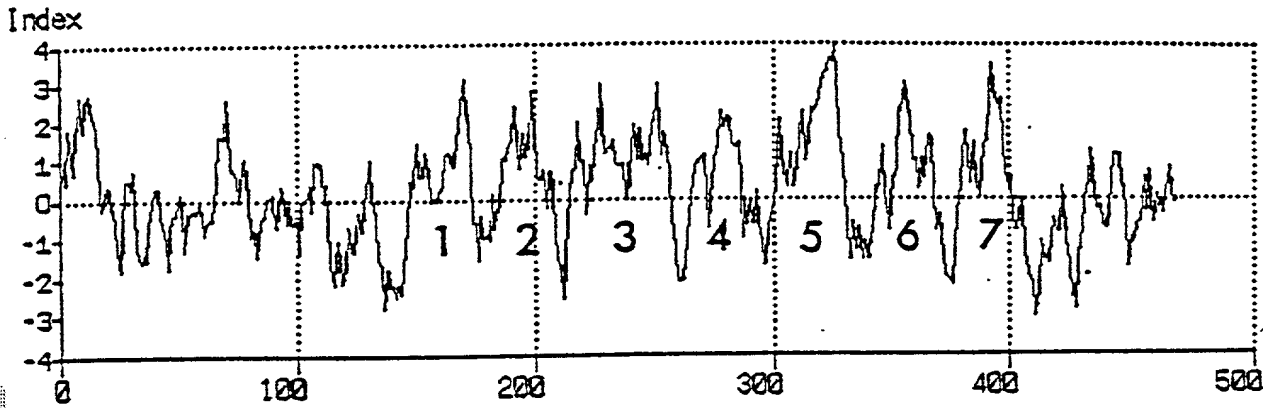
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1		Met	Ala	Gly	Val	Val	His	Val	Ser	Leu	Ala	Ala	His	Cys	Gly	Ala	Cys	Pro	Trp	Gly	Arg	Gly	21	
68	AGT	GTC	ATG	GGT	GTC	GTG	CAC	GTT	TCC	CTG	GCT	GCT	CAC	TGC	GGG	GCC	TGT	CCG	TGG	GGC	CGG	GGC	136	
22	Arg	Leu	Arg	Lys	Gly	Arg	Ala	Ala	Cys	Lys	Ser	Ala	Ala	Gln	Arg	His	Ile	Gly	Ala	Asp	Leu	Pro	Leu	44
137	AGA	CTC	CGC	AAA	GGA	CGC	GCA	GCC	TGC	AAG	TCC	GCG	GCC	CAG	AGA	CAC	ATT	GGG	GCT	GAC	CTG	CCG	CTG	205
45	Leu	Ser	Val	Gly	Gly	Gln	Trp	Cys	Trp	Pro	Arg	Ser	Val	Met	Ala	Gly	Val	Val	His	Val	Ser	Leu	Ala	67
206	CTG	TCA	GTG	GGA	GGC	CAG	TGG	TGC	TGG	CCA	AGA	AGT	GTG	ATG	GCT	GGT	GTG	GTG	CAC	GTT	TCC	CTG	GCT	274
68	Ala	Leu	Leu	Leu	Leu	Pro	Met	Ala	Pro	Ala	Met	His	Ser	Asp	Cys	Ile	Phe	Lys	Lys	Glu	Gln	Ala	Met	90
275	GCT	CTC	CTC	CTG	CTG	CCT	ATG	GCC	CCT	GCC	ATG	CAT	TCT	GAC	TGC	ATC	TTC	AAG	AAG	GAG	CAA	GCC	ATG	343
91	Cys	Leu	Glu	Lys	Ile	Gln	Arg	Ala	Asn	Glu	Leu	Met	Gly	Phe	Asn	Asp	Ser	Ser	Pro	Gly	Cys	Pro	Gly	113
344	TGC	CTG	GAG	AAG	ATC	CAG	AGG	GCC	AAT	GAG	CTG	ATG	GCG	TTC	AAT	GAT	TCC	TCT	CCA	GGC	TGT	CCT	GGG	412
114	Met	Trp	Asp	Asn	Ile	Thr	Cys	Trp	Lys	Pro	Ala	His	Val	Gly	Glu	Met	Val	Leu	Val	Ser	Cys	Pro	Glu	136
413	ATG	TGG	GAC	AAC	ATC	ACG	TGT	TGG	AAG	CCC	GCC	CAT	GTG	GGT	GAG	ATG	GTG	CTG	GTG	ACC	TGC	CCT	GAG	481
137	Leu	Phe	Arg	Ile	Phe	Asn	Pro	Asp	Gln	Val	Trp	Glu	Thr	Glu	Thr	Ile	Gly	Glu	Ser	Asp	Phe	Gly	Asp	159
482	CTC	TTC	CGA	ATC	TTC	AAC	CCA	GAC	CAA	GTG	TGG	GAG	ACC	GAA	ACC	ATT	GGA	GAG	TCT	GAT	TTT	GGT	GAC	550
160	Ser	Asn	Ser	Leu	Asp	Leu	Ser	Asp	Met	Gly	Val	Val	Ser	Arg	Asn	Cys	Thr	Glu	Asp	Gly	Trp	Ser	Glu	182
551	AGT	AAC	TCC	TTA	GAT	CTC	TCA	GAC	ATG	GGA	GTG	GTG	AGC	CGG	AAC	TGC	ACG	GAG	GAT	GGC	TGG	TCG	GAA	619
183	Pro	Phe	Pro	His	Tyr	Phe	Asp	Ala	Cys	Gly	Phe	Asp	Glu	Tyr	Glu	Ser	Glu	Thr	Asp	Gly	Asp	Tyr	TAT	205
620	CCC	TTC	CCT	CAT	TAC	TTT	GAT	GCC	TGT	GGG	TTT	GAT	GAA	TAT	GAA	TCT	GAG	ACT	GGG	GAC	CAG	GAT	TAT	688
206	Tyr	Tyr	Leu	Ser	Val	Lys	Ala	Leu	Tyr	Thr	Val	Gly	Tyr	Ser	Thr	Ser	Leu	Val	Thr	Leu	Thr	Thr	Ala	228
689	TAC	TAC	CTG	TCA	GTG	AAG	GCC	CTC	TAC	ACG	GTT	GGC	TAC	AGC	ACA	TCC	CTC	GTG	ACC	CTC	ACC	ACT	GCC	757
229	Met	Val	Ile	Leu	Cys	Arg	Phe	Arg	Lys	Leu	His	Cys	Thr	Arg	Asn	Phe	Ile	His	Met	Asn	Leu	Phe	Val	251
758	ATG	GTC	ATC	CTT	TGT	CGC	TTC	CGG	AAG	CTG	CAC	TGC	ACA	CGC	AAC	TTC	ATC	CAC	ATG	AAC	CTG	TTT	GTG	826
252	Ser	Phe	Met	Leu	Arg	Ala	Ile	Ser	Val	Phe	Ile	Lys	Asp	Trp	Ile	Leu	Tyr	Ala	Glu	Gln	Asp	Ser	Asn	274
827	TGG	TTC	ATG	CTG	AGG	GCG	ATC	TCC	GTG	TTC	ATC	AAA	GAC	TGG	ATT	CTG	TAT	GCG	GAG	CAG	GAC	AGC	AAC	895
275	His	Cys	Phe	Ile	Ser	Thr	Val	Glu	Cys	Lys	Ala	Val	Met	Val	Phe	Phe	His	Tyr	Cys	Val	Val	Ser	Asn	297
896	CAC	TGC	TTC	ATC	TCC	ACT	GTG	GAA	TGT	AAG	GCC	GTG	ATG	GTT	TTC	TTC	CAC	TAC	TGT	GTT	GTG	TCC	AAC	964
298	Tyr	Phe	Trp	Leu	Phe	Ile	Glu	Gly	Leu	Tyr	Leu	Phe	Thr	Leu	Leu	Val	Glu	Thr	Phe	Phe	Pro	Glu	Arg	320
965	TAC	TTC	TGG	CTG	TTC	ATC	GAG	GGC	CTG	TAC	CTC	TTC	ACT	CTG	CTG	GTG	GAG	ACC	TTC	TTC	CCT	GAA	AGG	1033
321	Arg	Tyr	Phe	Tyr	Trp	Tyr	Thr	Ile	Ile	Gly	Trp	Gly	Thr	Pro	Thr	Val	Cys	Val	Thr	Val	Trp	Ala	Thr	343
034	AGA	TAC	TTC	TAC	TGG	TAC	ACC	ATC	ATT	GGC	TGG	GGG	ACC	CCA	ACT	GTG	TGT	GTG	ACA	GTG	TGG	GCT	ACG	1102
344	Leu	Arg	Leu	Tyr	Phe	Asp	Asp	Thr	Gly	Cys	Trp	Asp	Met	Asn	Asp	Ser	Thr	Ala	Leu	Trp	Trp	Val	Ile	366
103	CTG	AGA	CTC	TAC	TTT	GAT	GAC	ACA	GGC	TGC	TGG	GAT	ATG	AAT	GAC	AGC	ACA	GCT	CTG	TGG	TGG	GTG	ATC	1171
367	Lys	Gly	Pro	Val	Val	Gly	Ser	Ile	Met	Val	Asn	Phe	Val	Leu	Phe	Ile	Gly	Ile	Ile	Val	Ile	Leu	Val	389
172	AAA	GGC	CCT	GTG	GTT	GGC	TCT	ATC	ATG	GTT	AAC	TTT	GTG	CTT	TTT	ATT	GGC	ATT	ATC	GTG	ATC	CTT	GTG	1240
390	Gln	Lys	Leu	Gln	Ser	Pro	Asp	Met	Gly	Gly	Asn	Glu	Ser	Ser	Ile	Tyr	Phe	Cys	Val	Gln	Lys	Cys	Tyr	412
241	CAG	AAA	CTT	CAG	TCT	CCA	GAC	ATG	GGA	GGC	AAT	GAG	TCC	AGC	ATC	TAC	TTC	TGC	GTG	CAG	AAA	TGC	TAC	1309
413	Cys	Lys	Pro	Gln	Arg	Ala	Gln	Gln	His	Ser	Cys	Lys	Met	Ser	Glu	Leu	Ser	Thr	Ile	Thr	Leu	Arg	Leu	435
310	TGC	AAG	CCA	CAG	CGG	GCT	CAG	CAG	CAC	TCT	TGC	AAG	ATG	TCA	GAA	CTG	TCC	ACC	ATT	ACT	CTG	CGA	CTG	1378
436	Ala	Arg	Ser	Thr	Leu	Leu	Leu	Ile	Pro	Leu	Phe	Gly	Ile	His	Tyr	Thr	Val	Phe	Ala	Phe	Ser	Pro	Glu	458
379	GCC	CGG	TCC	ACC	CTG	CTG	CTC	ATC	CCA	CTA	TTC	GGA	ATC	CAC	TAC	ACA	GTA	TTT	GCC	TTC	TCC	CCA	GAG	1447
459	Asn	Val	Ser	Lys	Arg	Glu	Arg	Leu	Val	Phe	Glu	Leu	Gly	Leu	Gly	Ser	Phe	Gln	Gly	Phe	Val	Val	Ala	481
1448	AAT	GTC	AGC	AAA	AGG	GAA	AGA	CTC	GTG	TTT	GAG	CTG	GGG	CTG	GGC	TCC	TTC	CAG	GGC	TTT	GTG	GTG	GCT	1516
482	Val	Leu	Tyr	Cys	Phe	Leu	Asn	Gly	Glu	Val	Gln	Ala	Glu	Ile	Lys	Arg	Lys	Trp	Arg	Ser	Trp	Lys	Val	504
1517	GTT	CTC	TAC	TGT	TTT	CTG	AAT	GGT	GAG	GTA	CAA	GCG	GAG	ATC	AAG	CGA	AAA	TGG	CGA	AGC	TGG	AAG	GTG	1585
505	Asn	Arg	Tyr	Phe	Ala	Val	Asp	Phe	Lys	His	Arg	His	Pro	Ser	Leu	Ala	Ser	Ser	Gly	Val	Asn	Gly	Gly	527
1586	AAC	CCT	TAC	TTC	GCT	GTG	GAC	TTC	AAG	CAC	CGA	CAC	CCG	TCT	CTG	GCC	AGC	AGT	GGG	GTG	AAT	GGG	GGC	1654
528	Thr	Gln	Leu	Ser	Ile	Leu	Ser	Lys	Ser	Ser	Ser	Gln	Ile	Arg	Met	Ser	Gly	Leu	Pro	Ala	Asp	Asn	Leu	550
655	ACC	CAG	CTC	TCC	ATC	CTG	AGC	AAG	AGC	AGC	TCC	CAA	ATC	CGC	ATG	TCT	GGC	CTC	CCT	GCT	GAC	AAT	CTG	1723
551	Ala	Thr	***																					552
724	GCC	ACC	TGA	GCC	ATG	CTC	CCC	T																1745

Fig. 18

[illegible]

Fig. 19

A



B

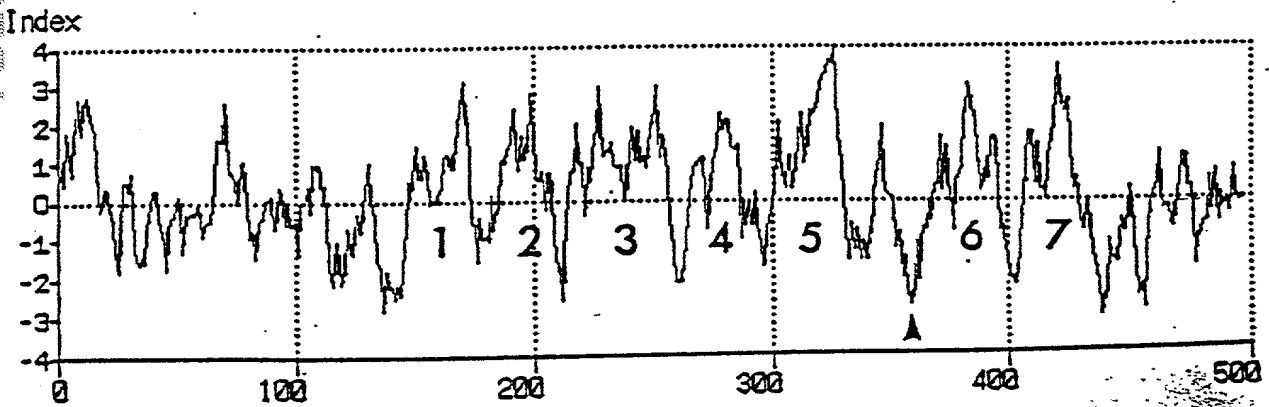


Fig. 20

EQUIVALENT

- 1 : Ala(A), Ser(S), Thr(T), Pro(P), Gly(G)
- 2 : Asn(N), Asp(D), Asx(B), Glu(E), Gln(Q), Glx(Z)
- 3 : His(H), Arg(R), Lys(K)
- 4 : Met(M), Leu(L), Ile(I), Val(V)
- 5 : Phe(F), Tyr(Y), Trp(W)

PACAP receptor (upper lines)

VIP receptor (lower lines)

19	29	39	49	59	69	79
TALLLPVAIAMHSDCIFKKEQAMCLERIQRANDLMGLNESSPGCPGMWDNITCWKPAQVGMVLVSCPEV						
* *	**	* *	*	* *	* *	**
MRPPSPPHVRWLCVLAGALACALRPAGSQAASPOHECEYLQLIEIQRQQCLEEAQLENETTGCCKMWDNL						
10	20	30	40	50	60	70

89	99	109	119	129	139	149
FRIFNPDQVWMTETIGDSGFADSNLSLEITDMGVVGRNCTEDGWSEPFPHYFDACGFDDYEPESGDQDY						
*	*	**	***	* *	* *	* *
TCWPTTPRGQAVVLDCLIFQLFAPIHGYNISRSCTEEGWSQLEPGPHYIACGLNDRASSLDEQQQTKFY						
80	90	100	110	120	130	140

159	169	179	189	199	209	219
LSVKALYTVGYSTSLATLTAMVILCRFRKLHCTRNFIHMNLVVSFMLRAISVFIKDWILYAEQDSSHCF						
****	*****	*****	**	**	*****	*****
NTVKTGYTIGYSLSLASLLVAMAILSLFRKLHCTRNYIHMHLFMSFILRATAVFIKDMALFNSGEIDHCS						
150	160	170	180	190	200	210

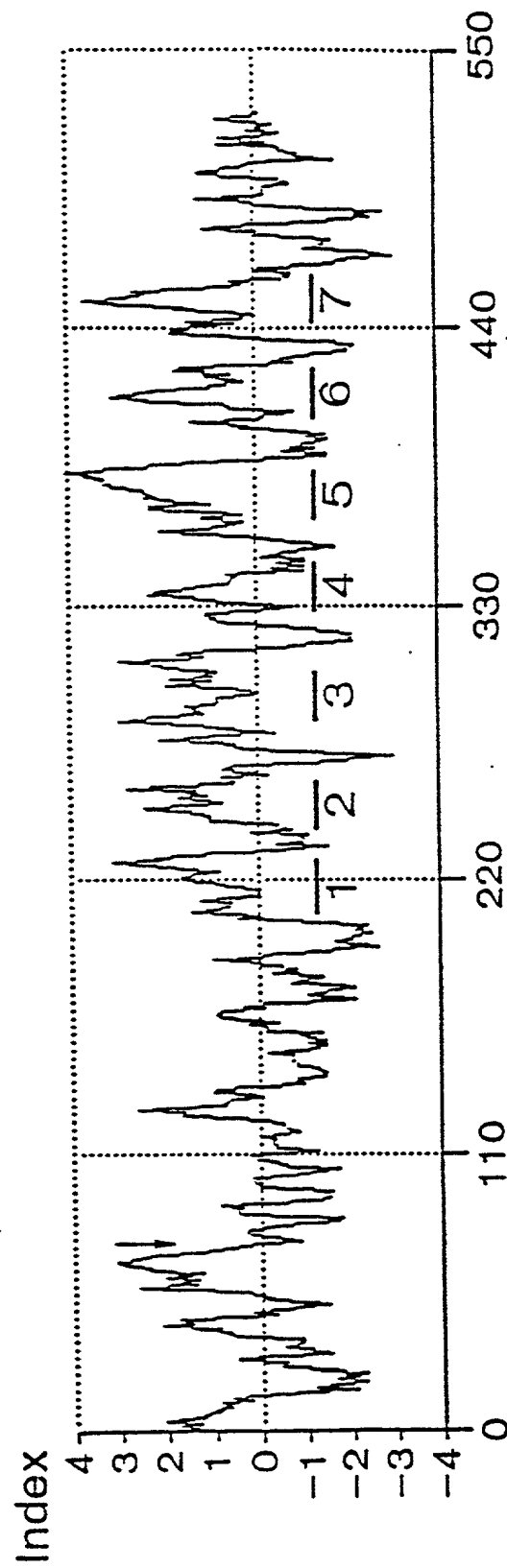
229	239	249	259	269	279	289
VSTVECKAVMVFFHYCVVSNYFWLFIEGLYLFTLLVETFFPERRYFYWYTIIGWGTPTVCVTWAVLRLY						
***	***	****	*****	*****	*****	*****
EASVGCKAAVVFFQYCVMANFFWLLVEGLYLYTLLAVSFFSERKYFWGYILIGWGVPSVFITITVTVRIY						
220	230	240	250	260	270	280

299	309	319	329	339	349	359
FDDAGCWDMDNSTALWWVIKGPVVGSIIMVNFVLFIGIIIIILVQKLQSPDMGGNESSIYLRLARSTLLLIP						
***	****	*****	*****	*****	*****	*****
FEDFGCWDTIINSSLWWIIKAPILLSILVNFVLFICIIRILVQKLRPDPDIGKNDSSPYSRLAKSTLLLIP						
290	300	310	320	330	340	350

369	379	389	399	409	419	429
LFGIHYTVFAFSPENVSKRERLVFELGLGSFQGFVAVLYCFLNGEVQAEIKRKWRSWKVNRYFTMDFKH						
*****	****	***	*****	*****	*****	*****
LFGIHYVMFAFFPDNFKAQVKMFELVVGSIQGFVAILYCFNGEVQAEILRRKWRWHLQGVLGWSSKS						
360	370	380	390	400	410	420

439	449	459
RHPSLASSGVNGGTQLSILSKSSSQLRMSSLPADNLAT*		
**	**	*
QHPWGGSNGATCSTQVSMLTRVSPSARRSSSFQAEVSLV		
430	440	450

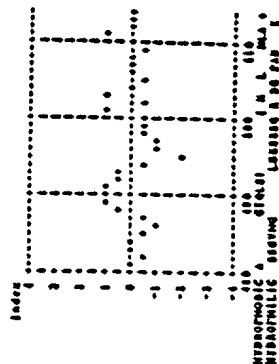
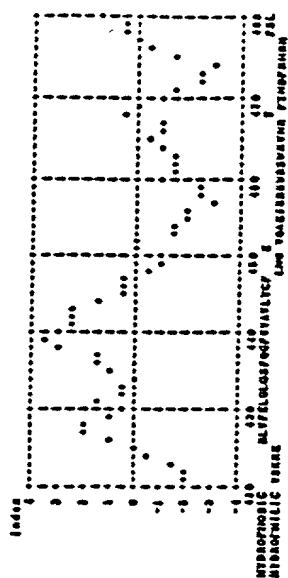
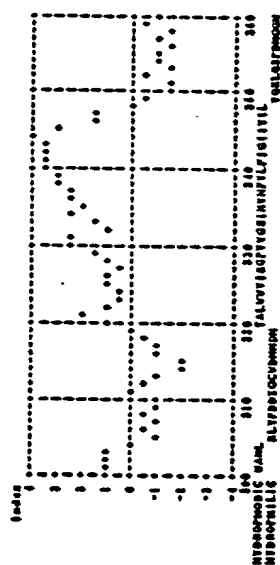
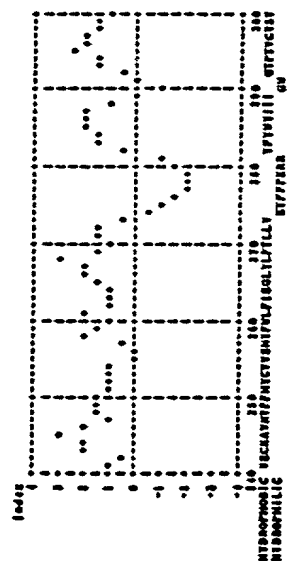
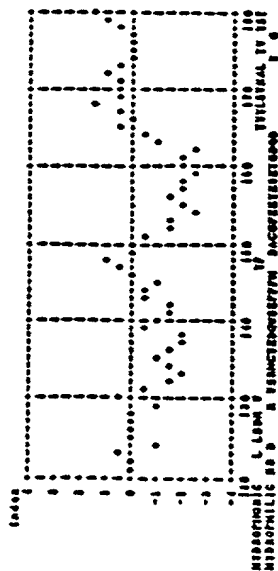
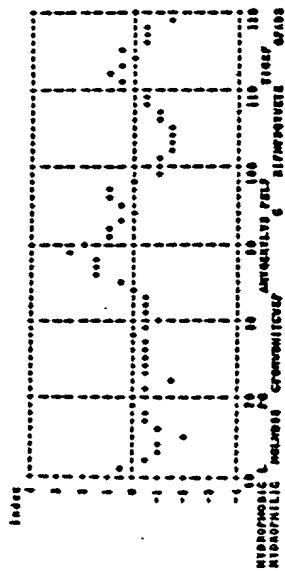
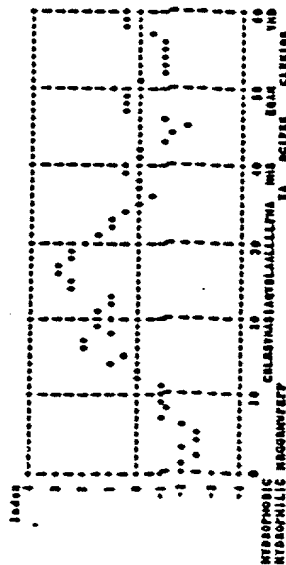
Fig. 21



HUMAN
BOVINE
RAT

WINDY 0 0 MAX WINDS 0.0 17200 170 110
TEMPERATURE LINE 0.00

Fig. 23



DATE 01-10-19

**** HYDROPHOBICITY ANALYSIS LIST ****

*** INPUT INFORMATION ***

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HYDROPHOBICITY INDEX TABLE FILE : HYAL.TAB

*** HYDROPHOBICITY INDEX ***

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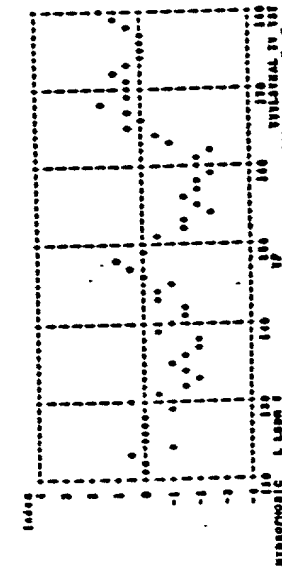
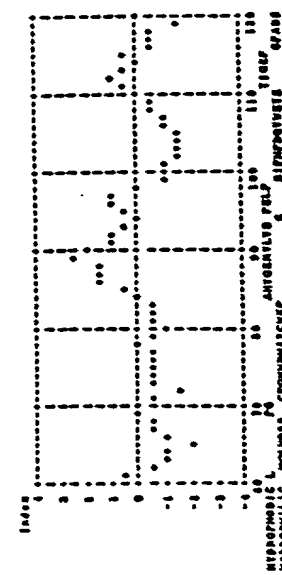
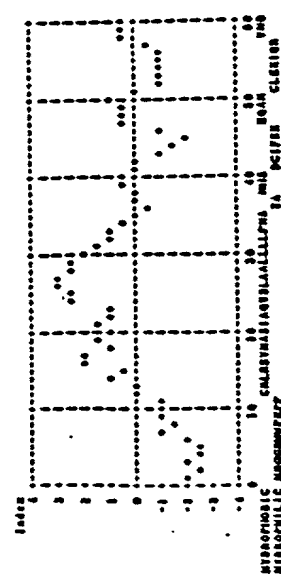


Fig. 24

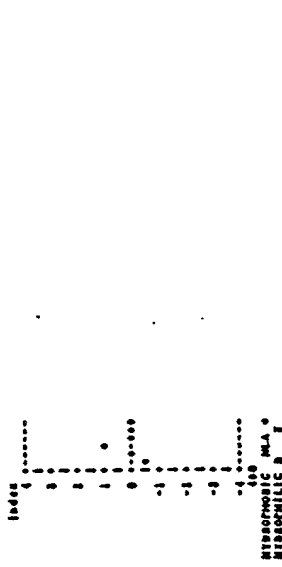
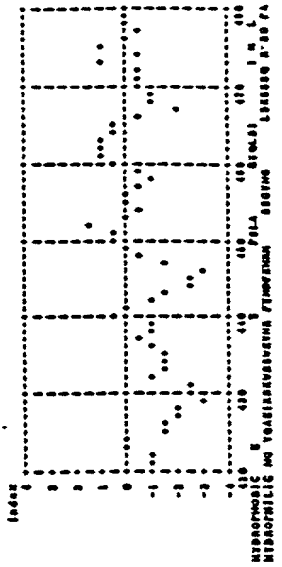
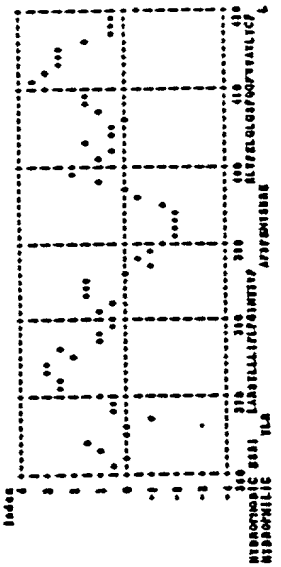
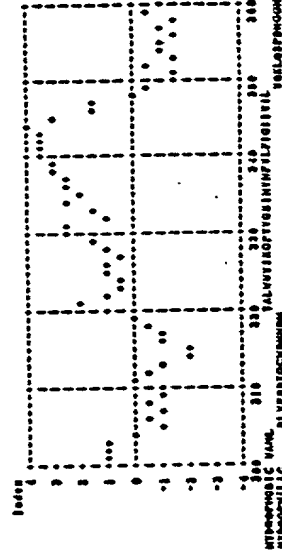
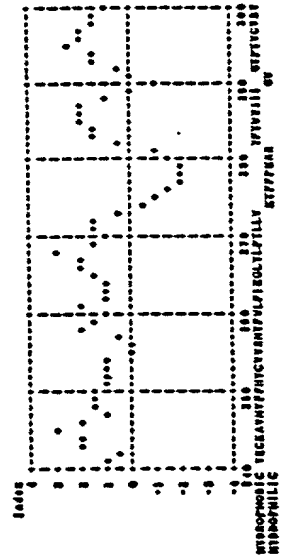
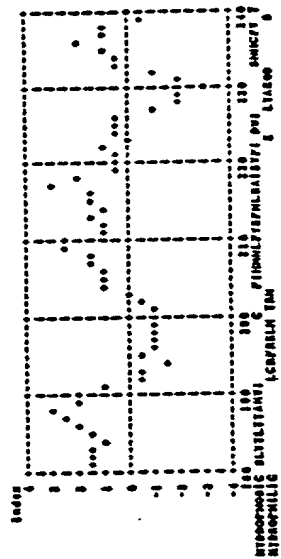


Fig. 25

02-01-76 21:0 0000 0017 0101777 0010100000000000 0101777

000 millionaire born 000

1-800-828-1111 • 800-828-1111

[illegible]

0000 00 1 0000 000 0 0001 0000 0 0001 0000

06-01 Daily Groundwell

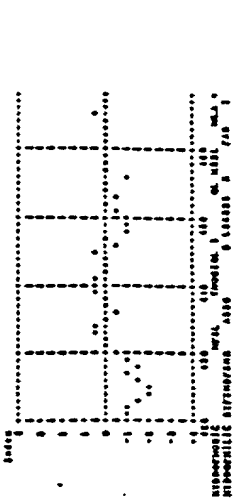
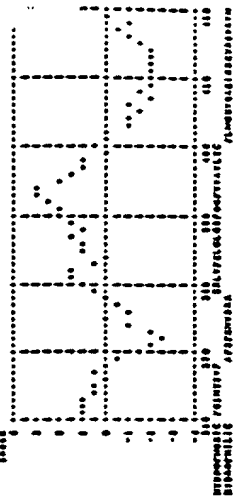
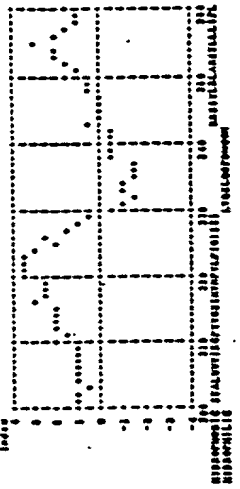
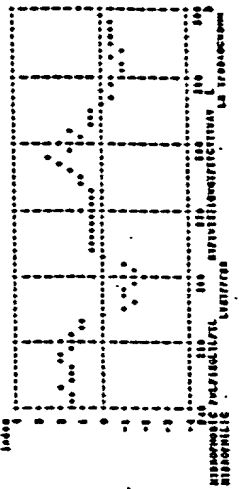
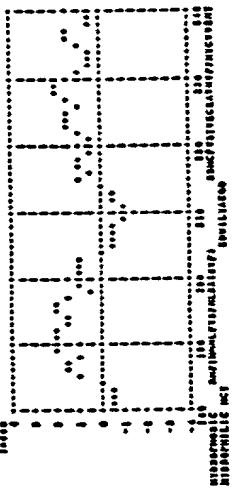
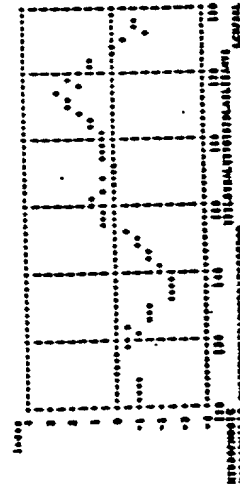
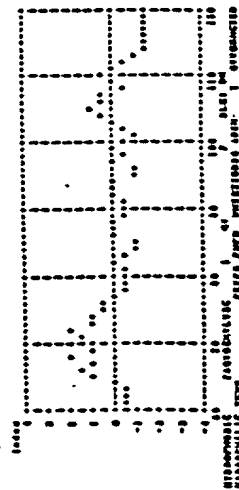
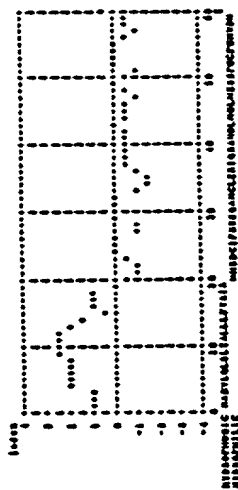


Fig. 26

1210 ***** ANALYSIS LIST ***** 0105 02-10-10

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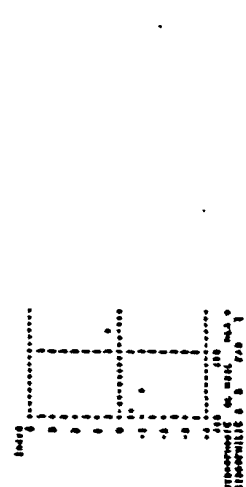
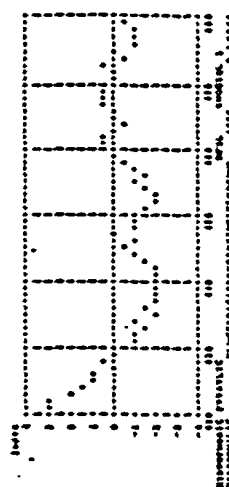
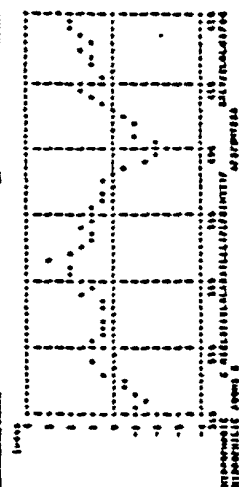
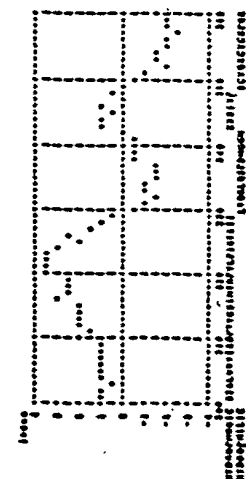
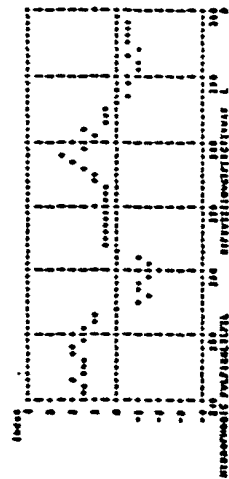
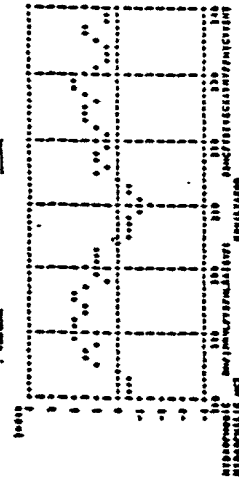
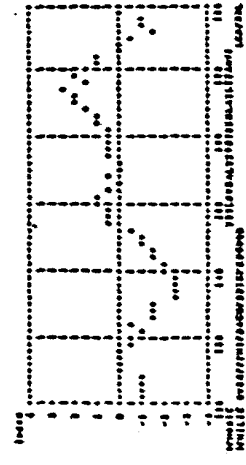
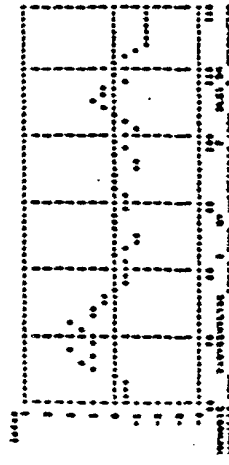
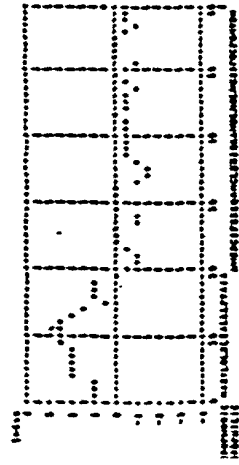
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DATE 03-10-10

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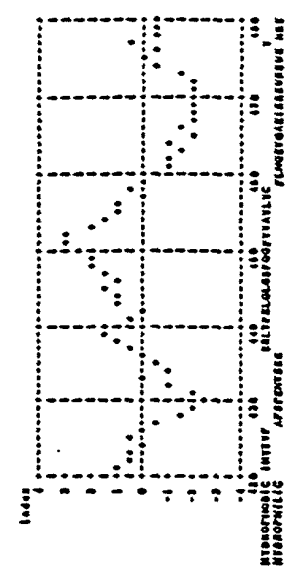
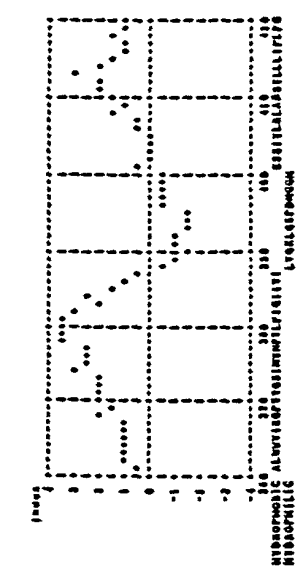
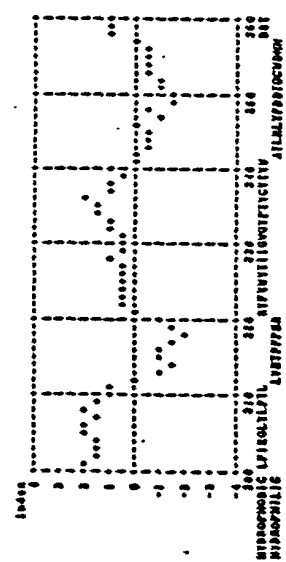
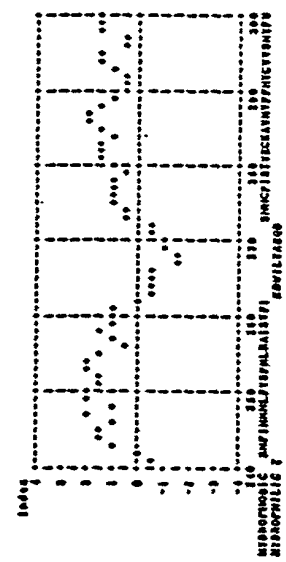
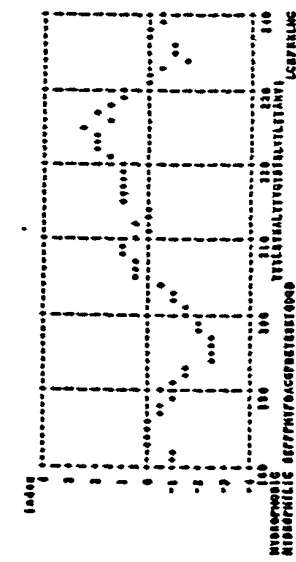
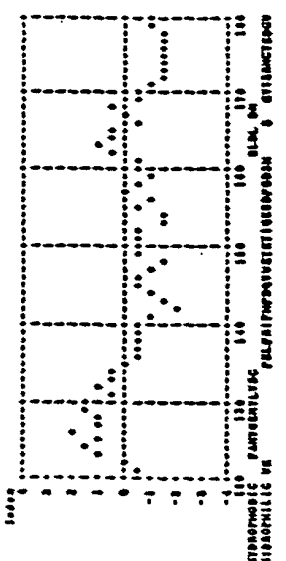
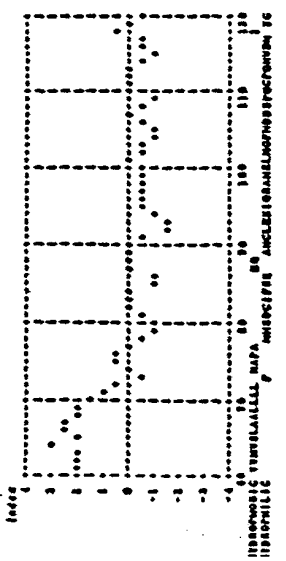
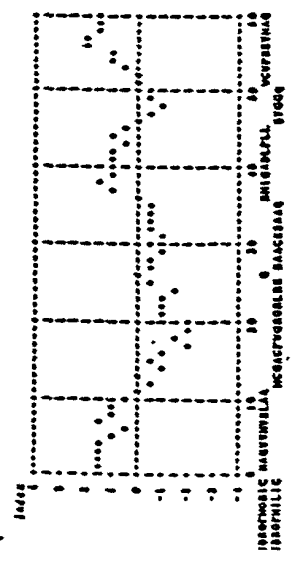


Fig. 28

ABSORBANCE AT 214 NM

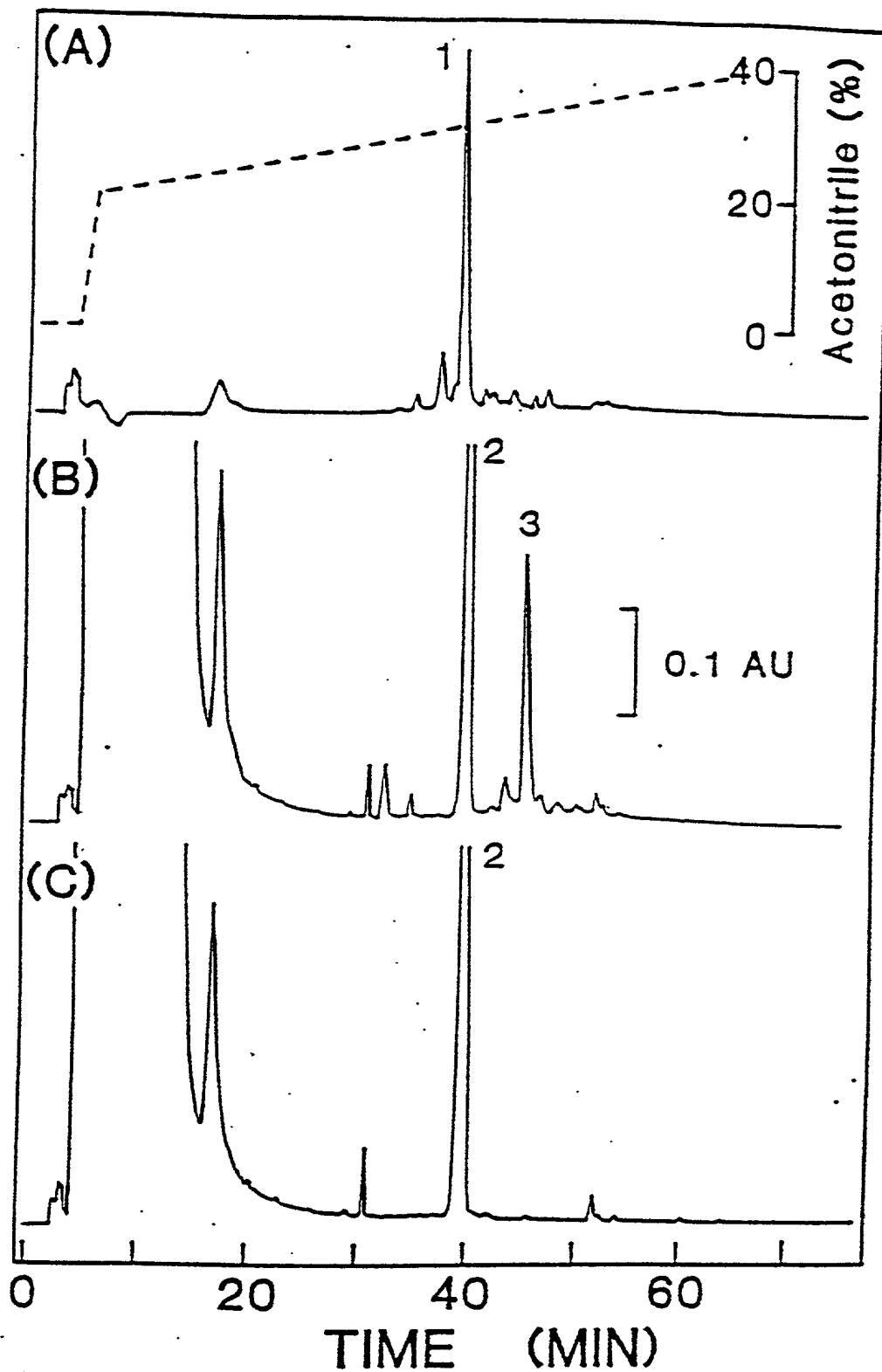


Fig. 29

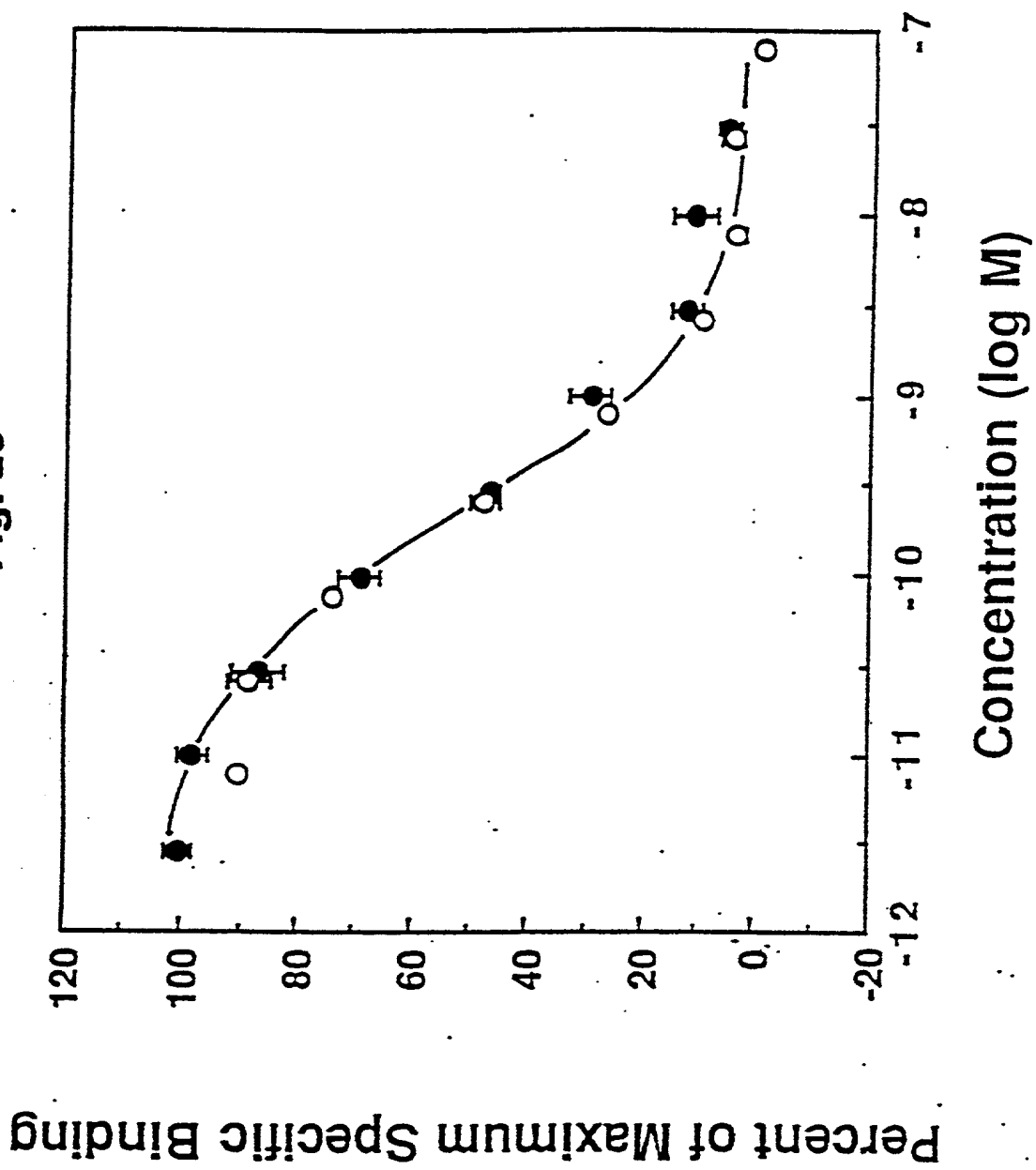


Fig. 30

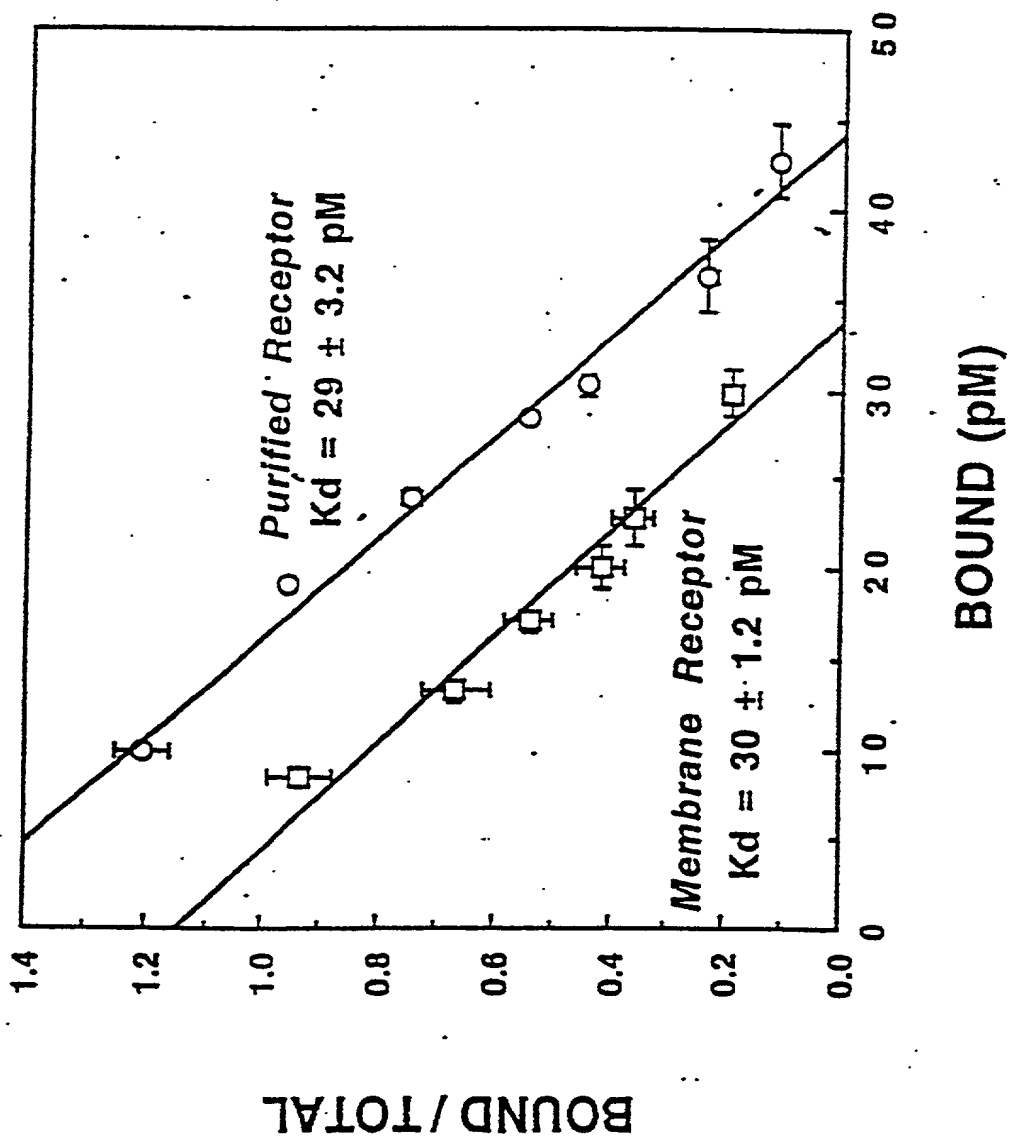
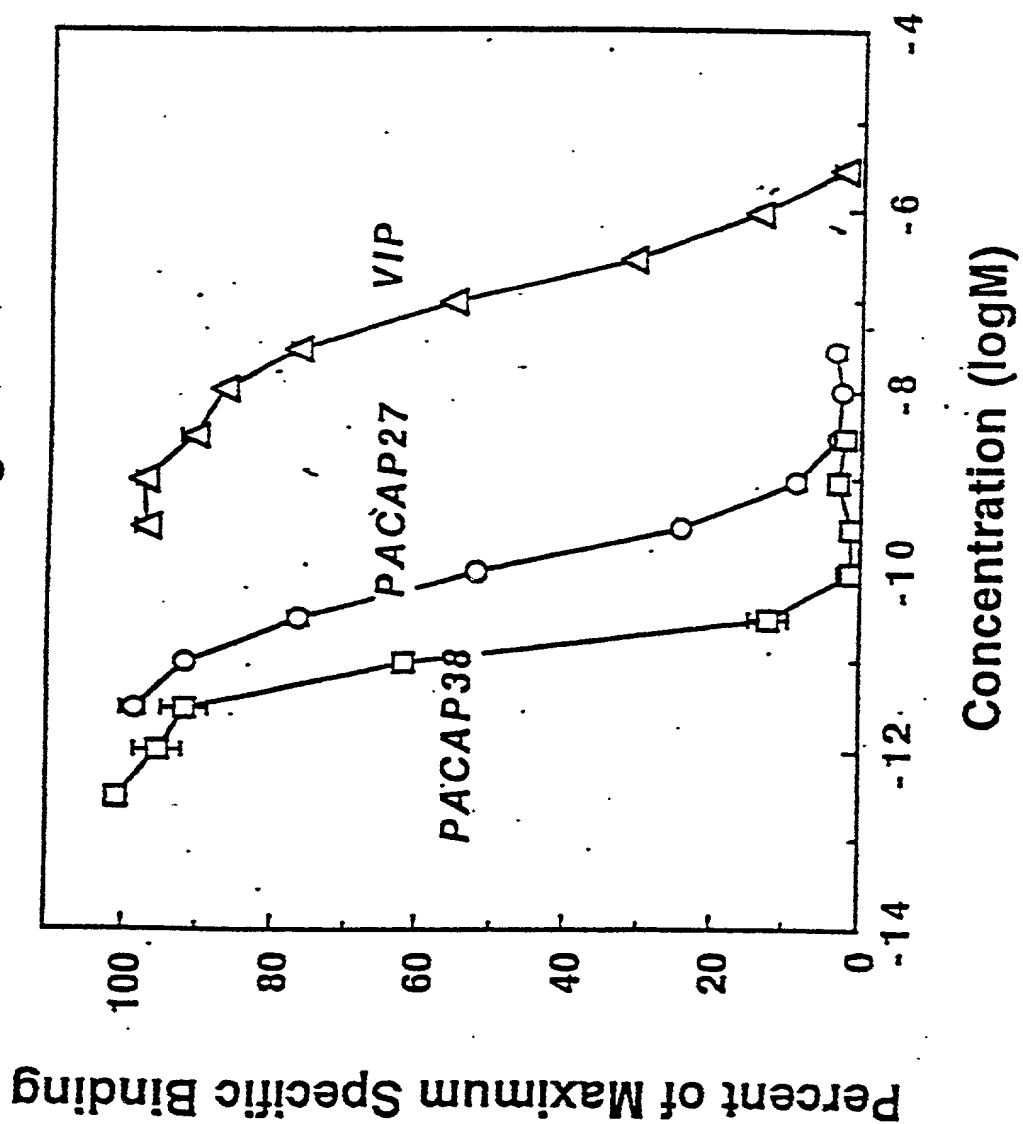


Fig. 31



(The following names are those appearing in the original document.)



Fig. 33

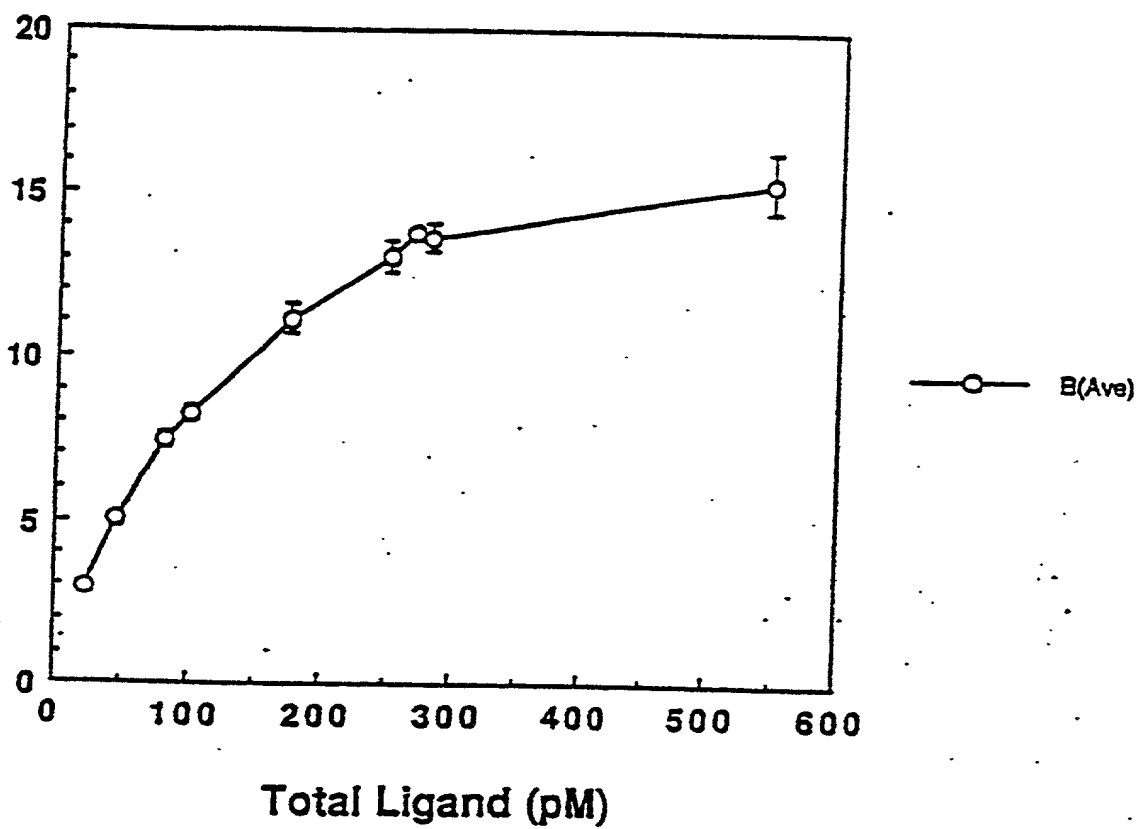


Fig. 34

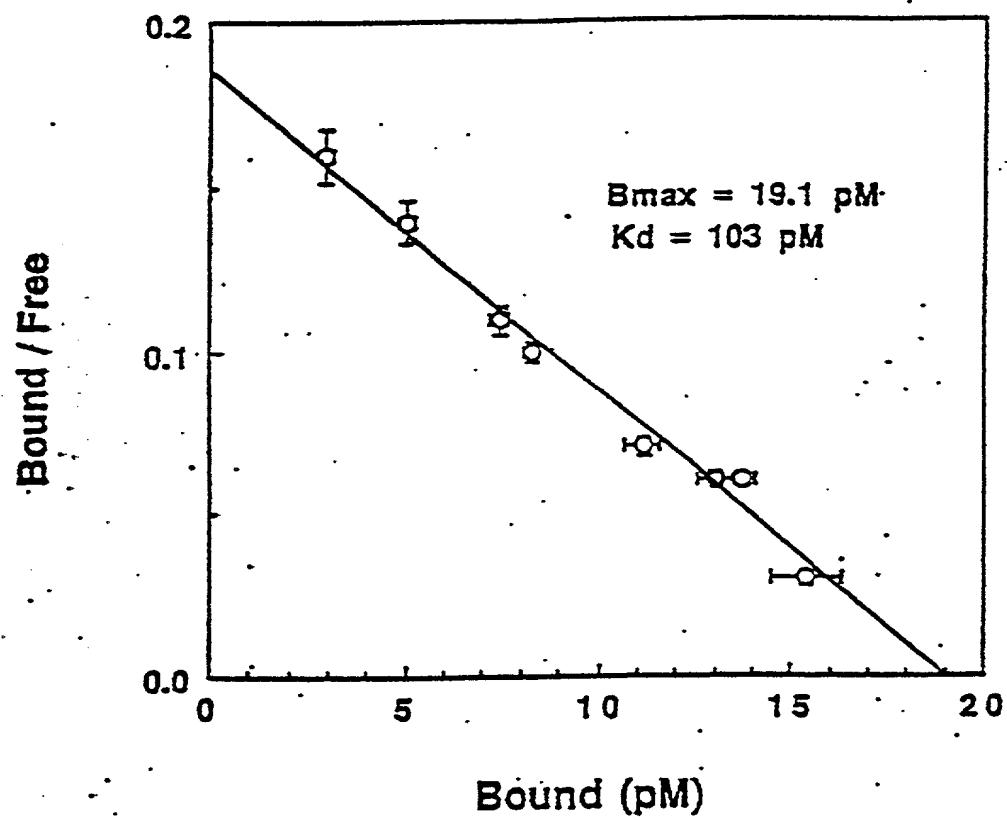


Fig. 35

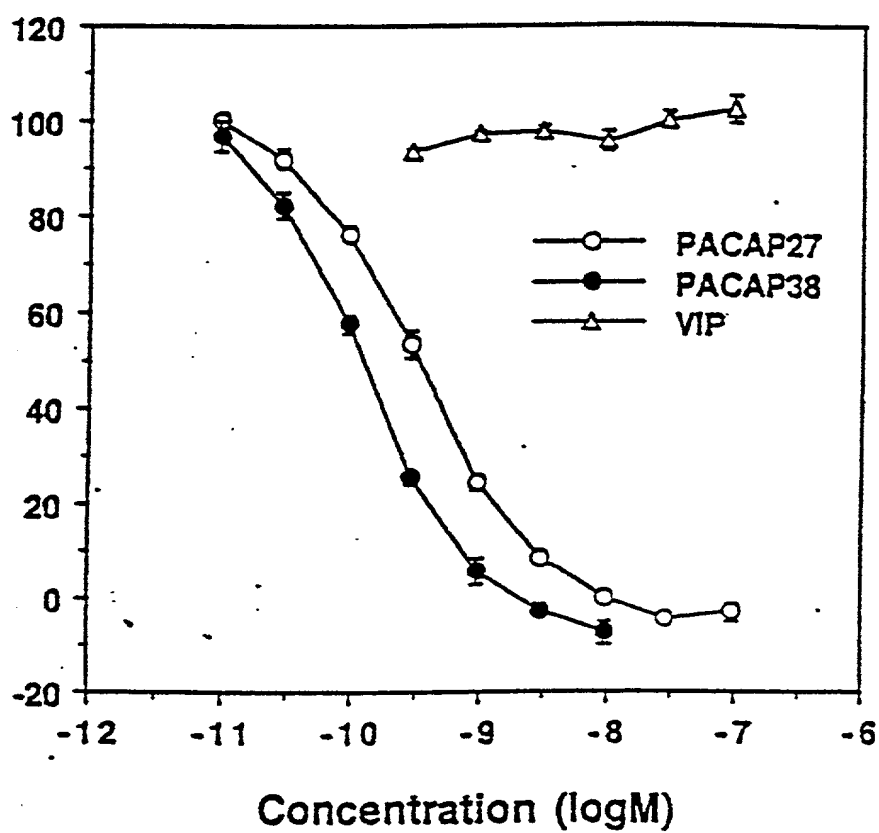


Fig. 36

FIG
Increase of Intracellular cAMP Concentration
(-fold of control)

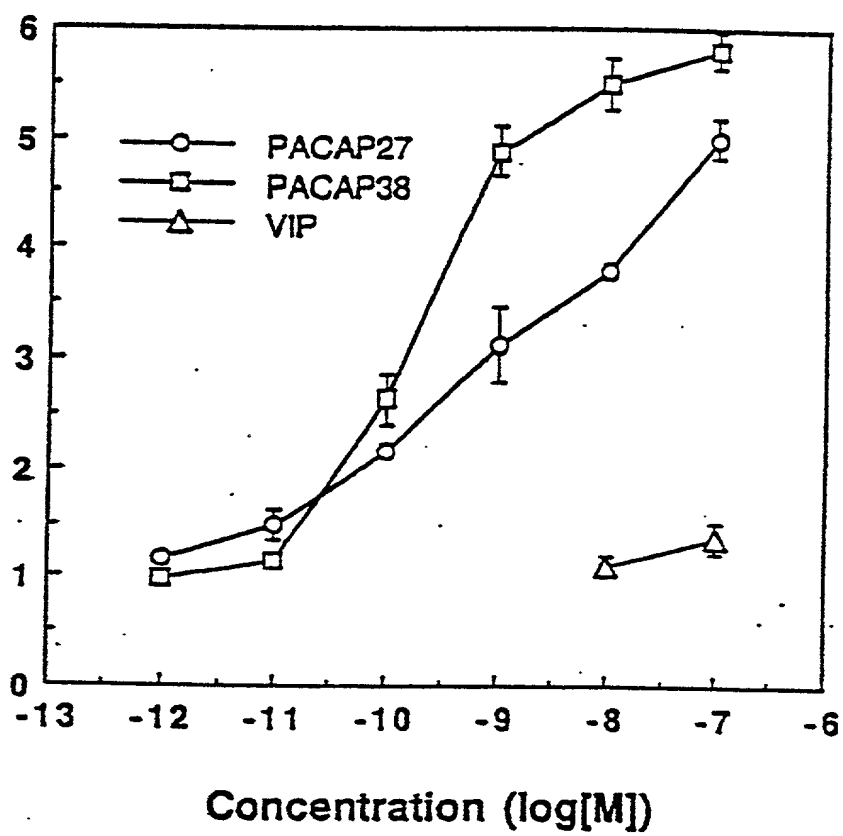


Fig. 37

Accumulation of Inositolphosphates
(-fold of control)

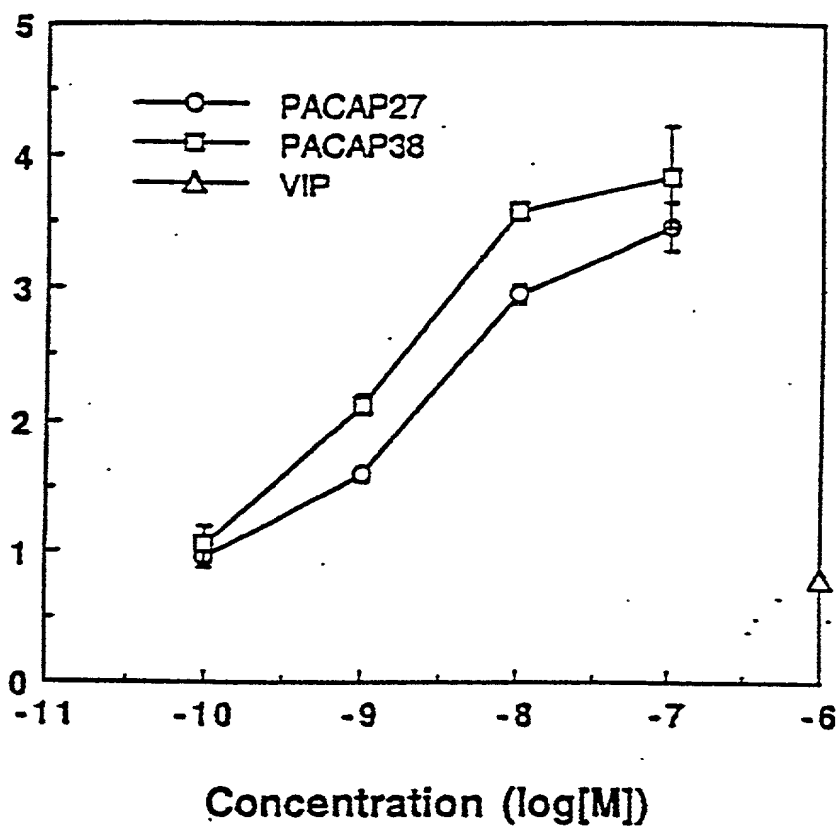
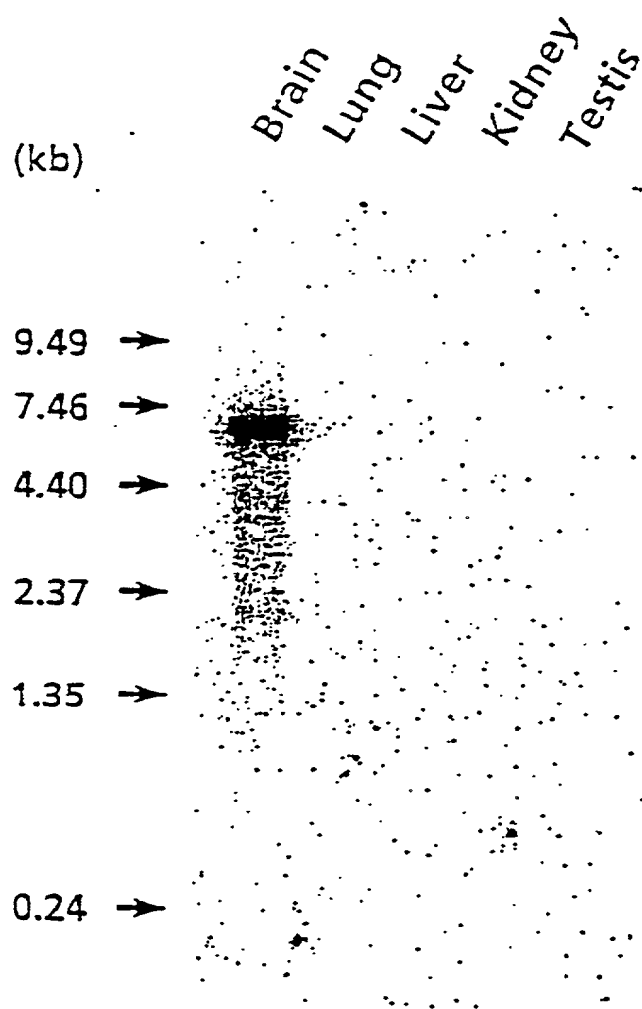


Fig. 38



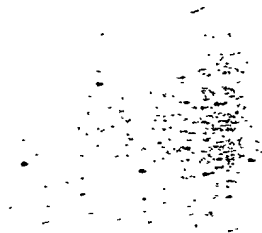
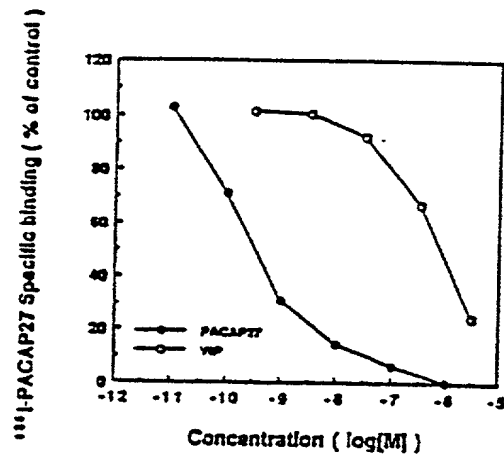


Fig. 40

A



B

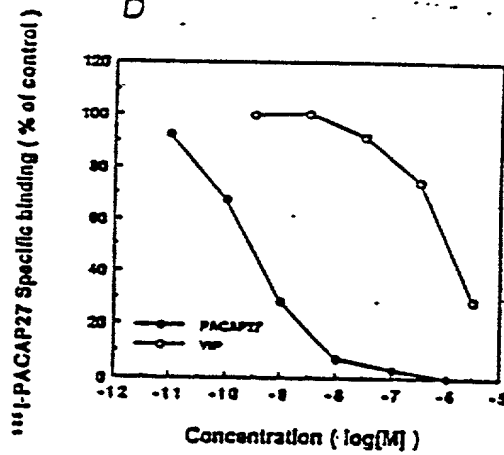


Fig. 41

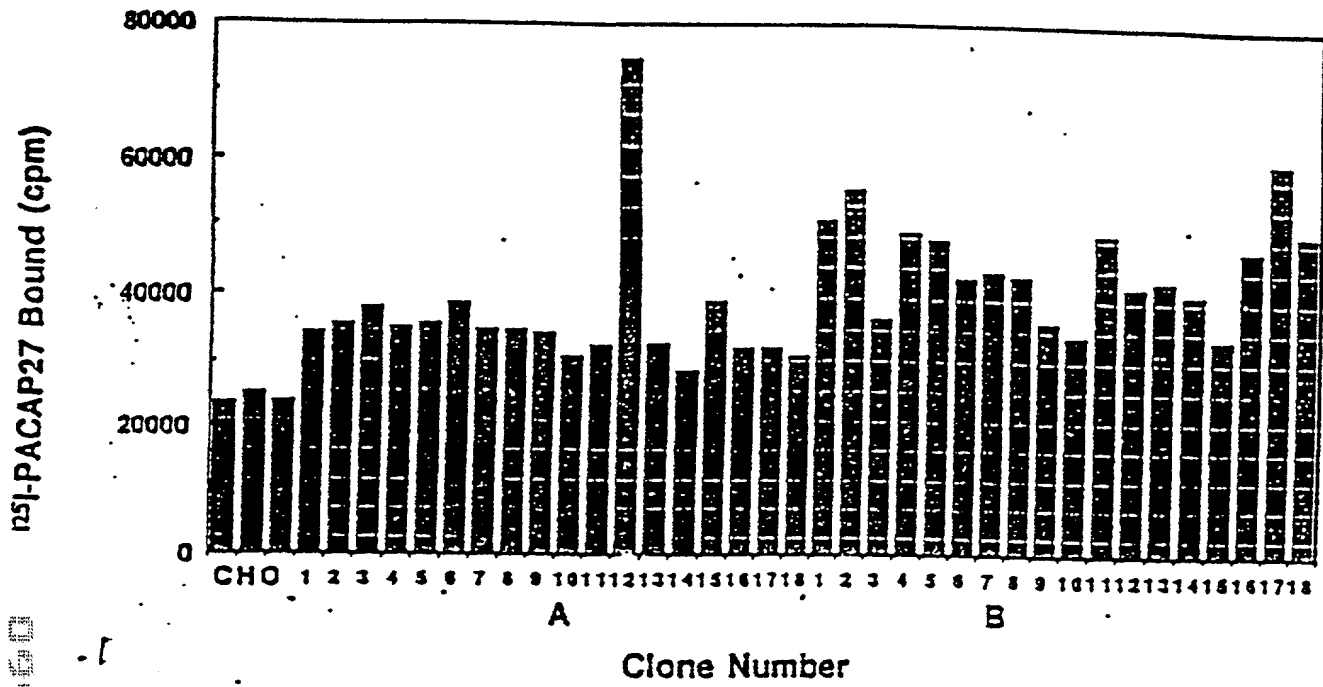


Fig. 42

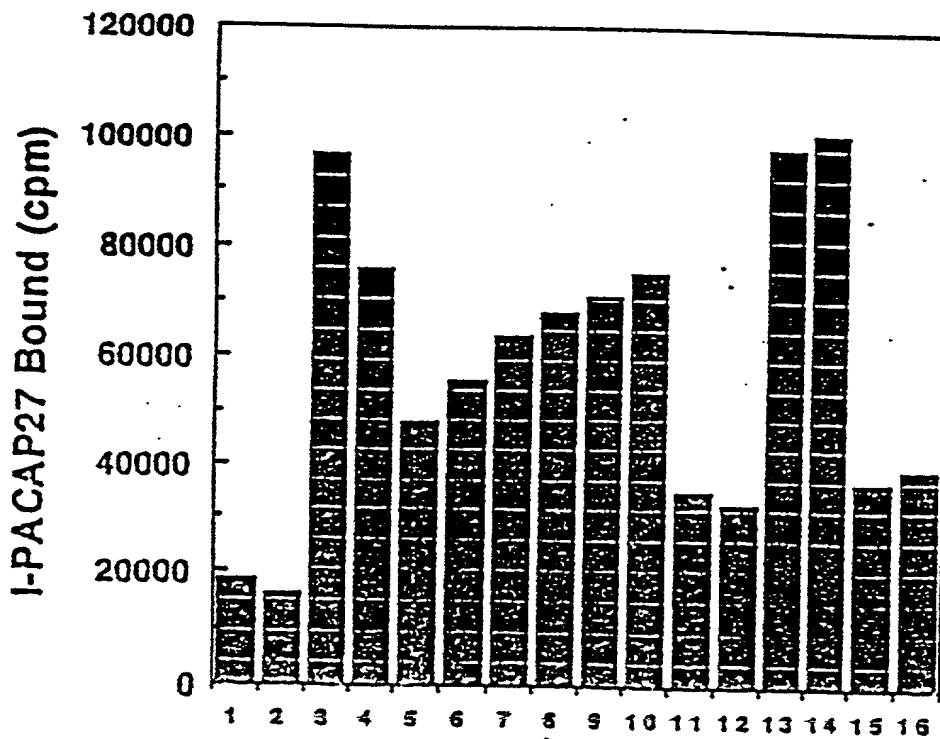


Fig. 43

No.

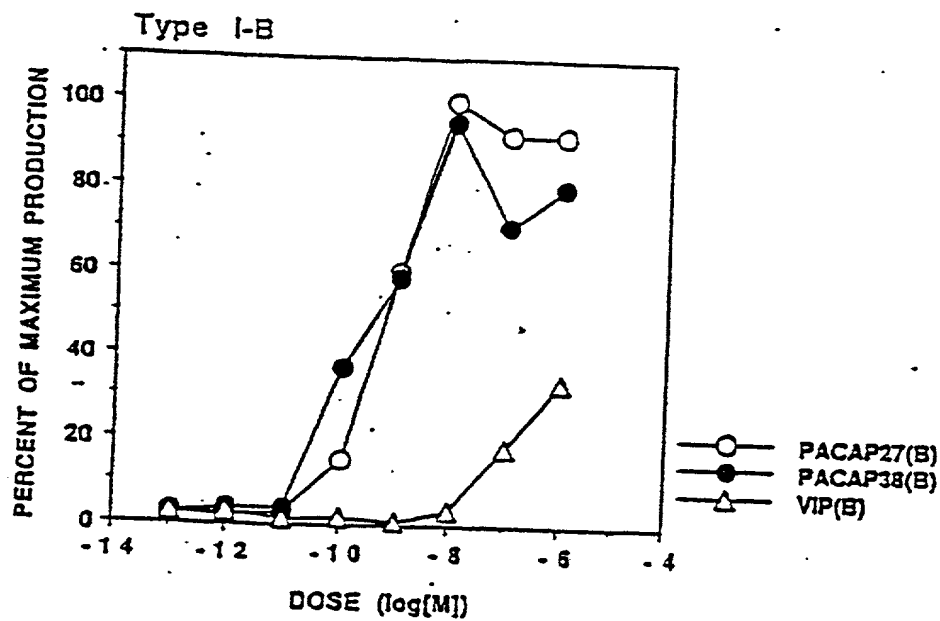
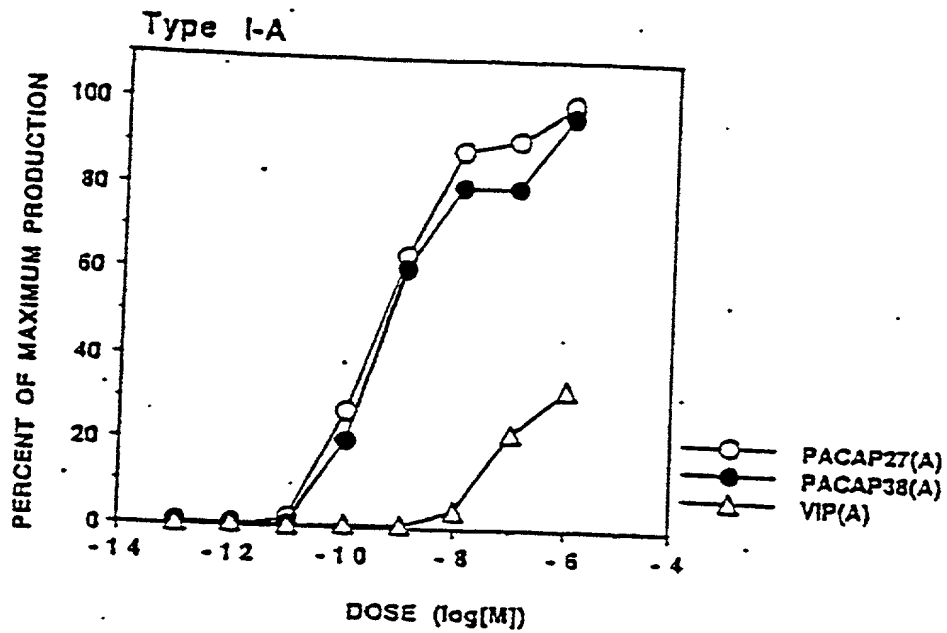


Fig. 44

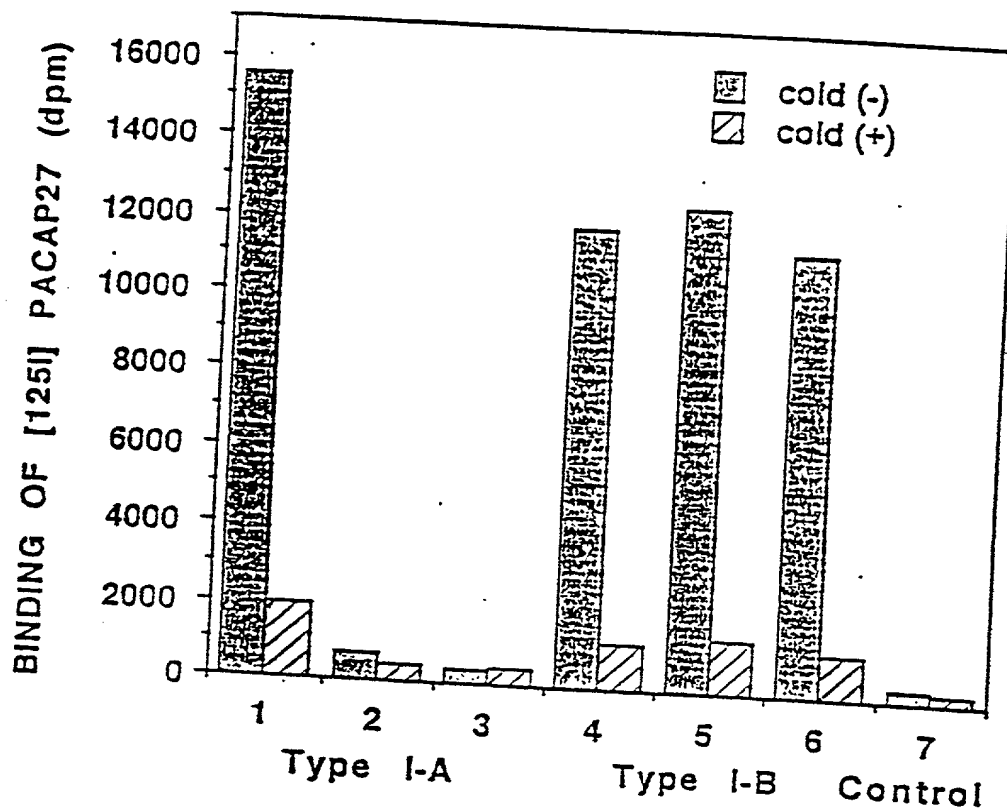
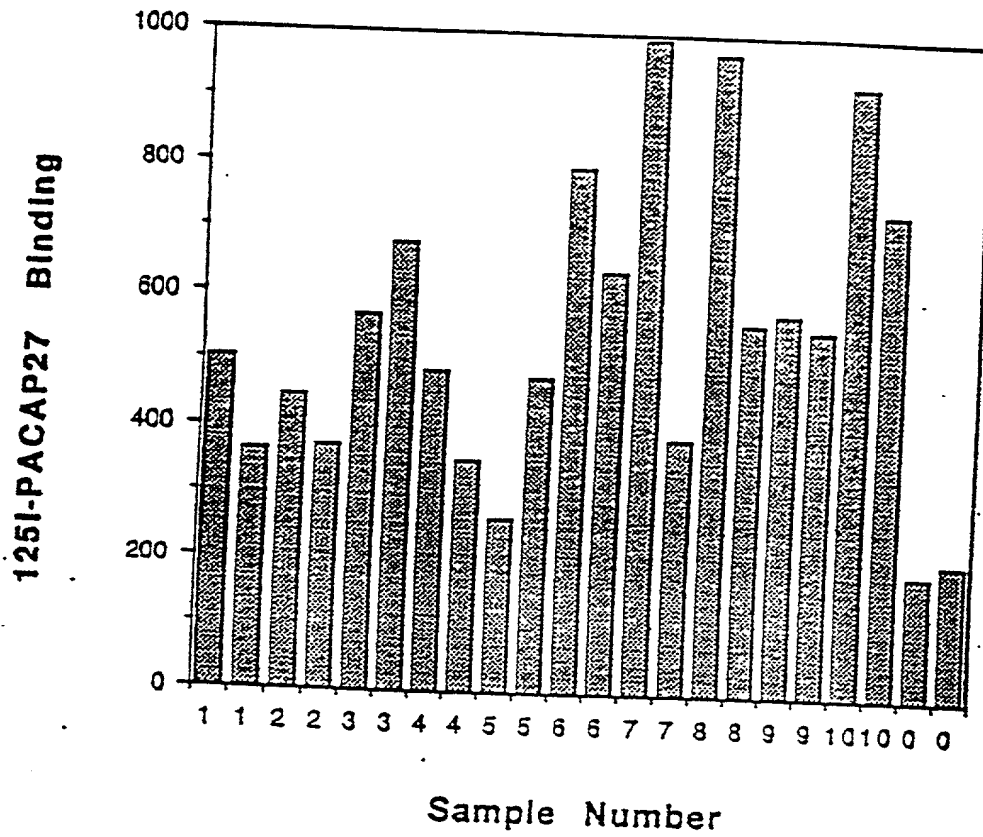
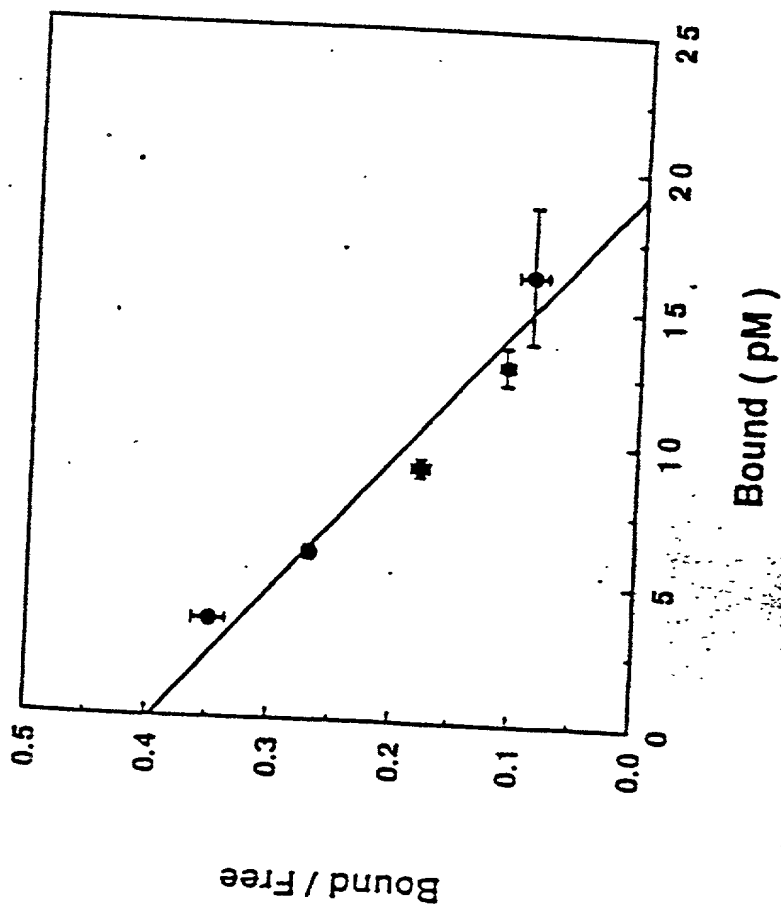


Fig. 45



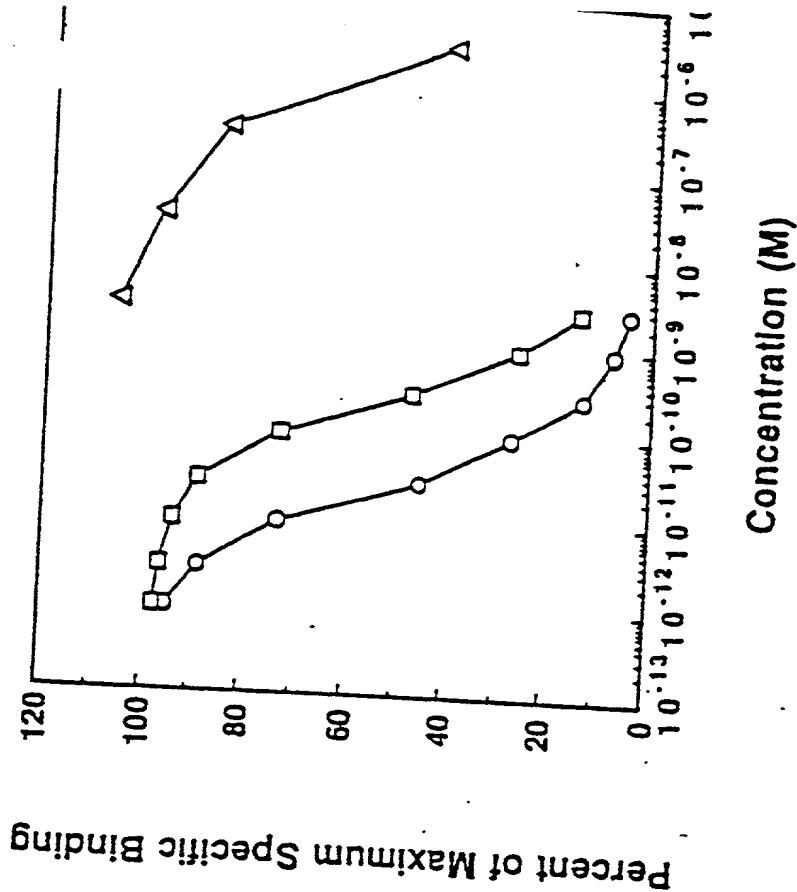
A

Fig. 46



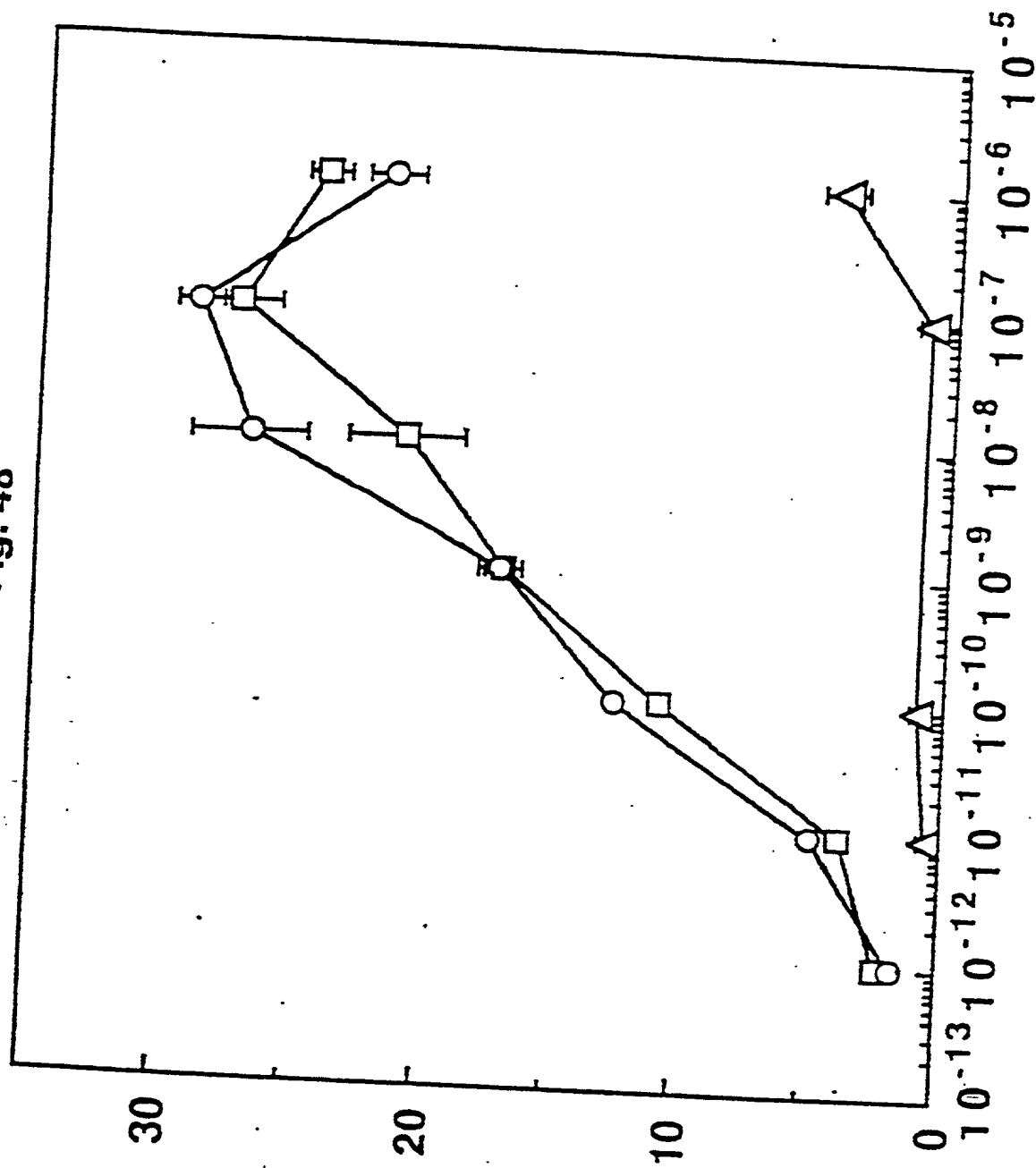
B

Fig. 47



Relative Content of Intracellular cAMP
(X control)

Fig. 48



Concentration (M)

Fig. 49

Brain
Lung
Liver
Thymus
Spleen
Pancreas
Placenta

(kb)

9.49 ↑
7.46 ↑
4.40 ↑
2.37 ↑
1.35 ↑
0.24 ↑



Fig. 50

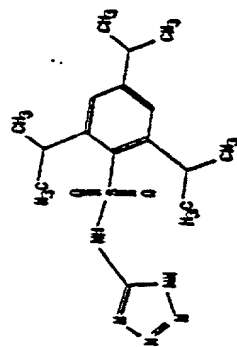
Olfactory Bulb
Amygdala
Basal Ganglia
Hippocampus
Thalamus
Hypothalamus
Cerebral Cortex
Medulla
Cerebellum
Spinal Cord
Pituitary

(kb)

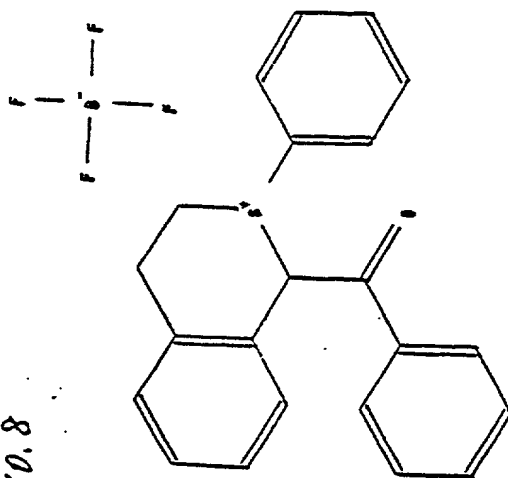
9.49 ↑
7.46 ↑
4.40 ↑
2.37 ↑
1.35 ↑
0.24 ↑



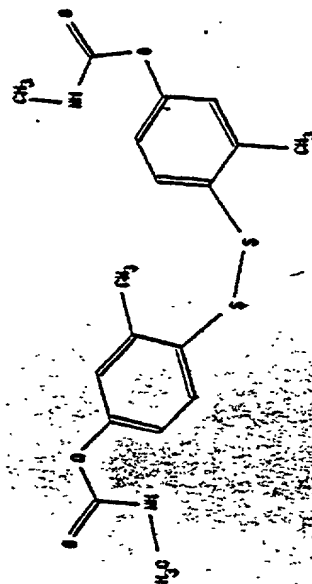
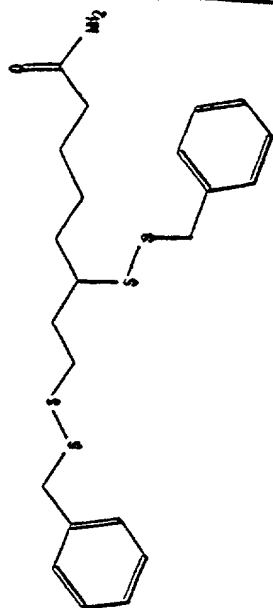
No. 7



No. 8



No. 9



No. 10

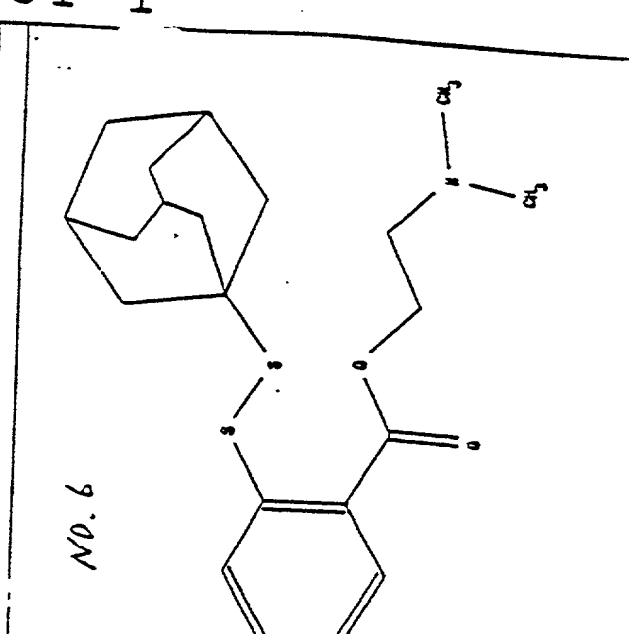
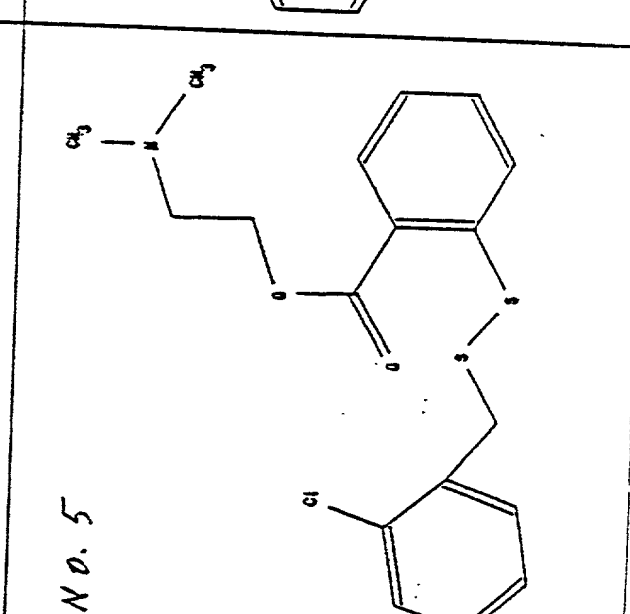
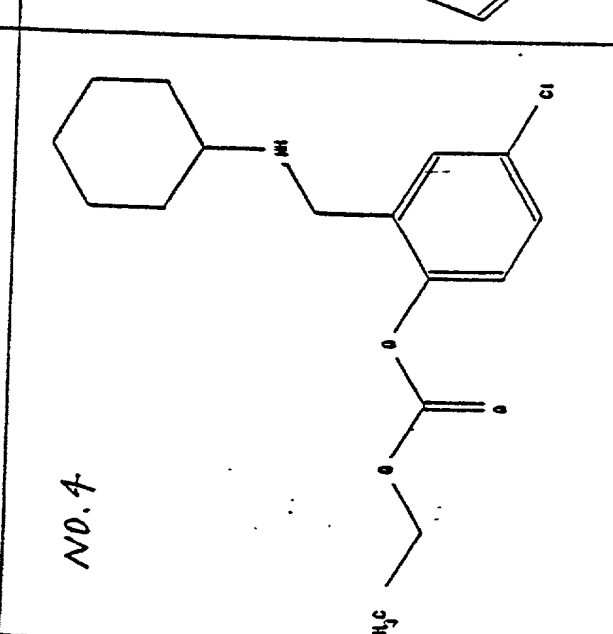
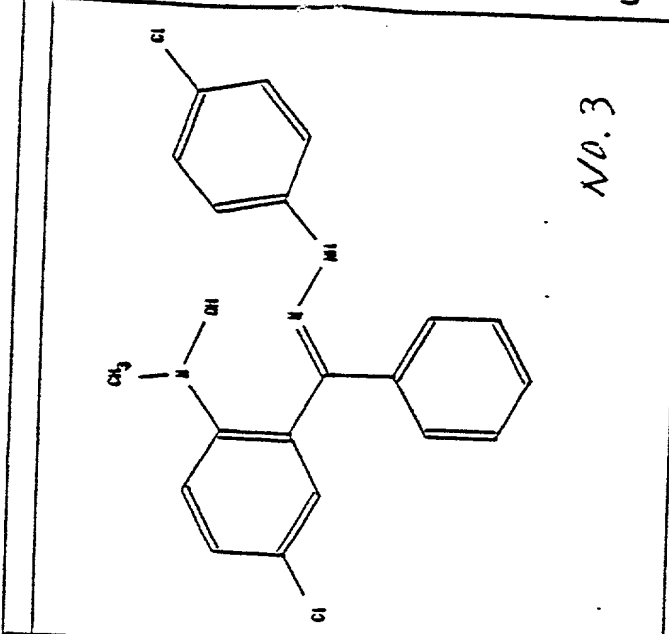
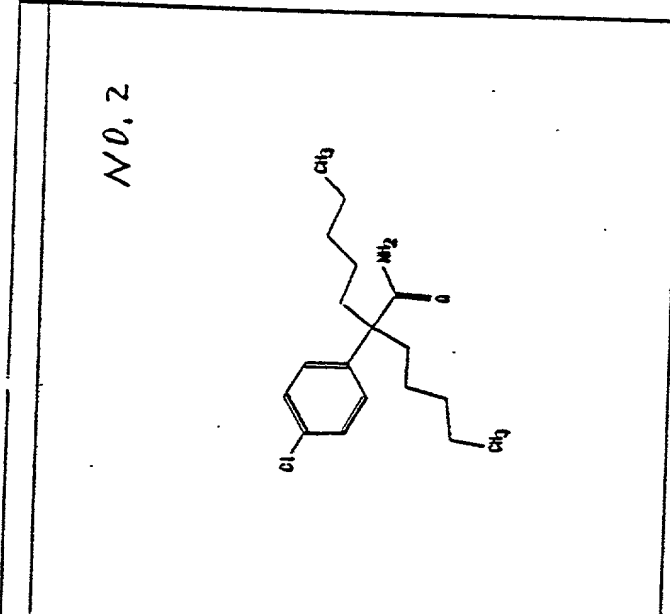
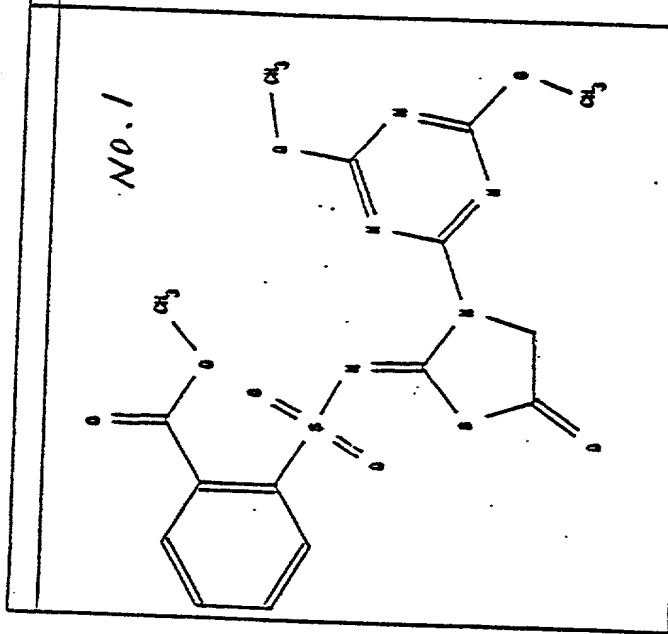


Fig. 52

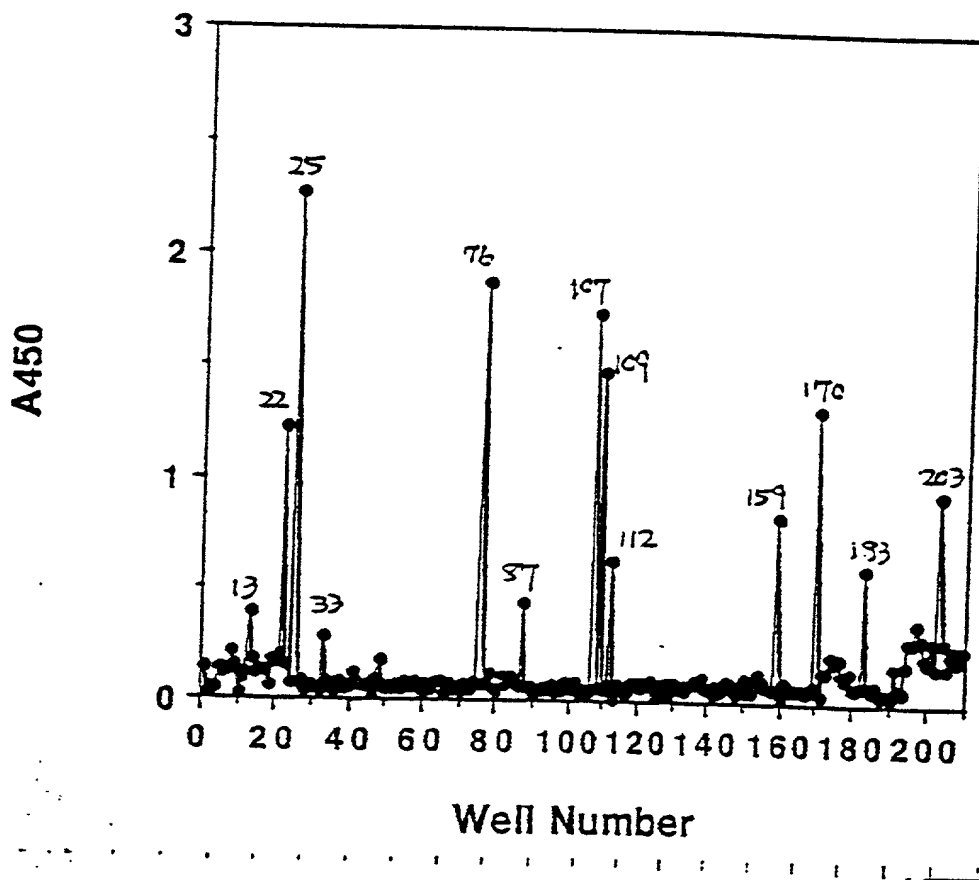


Fig. 53

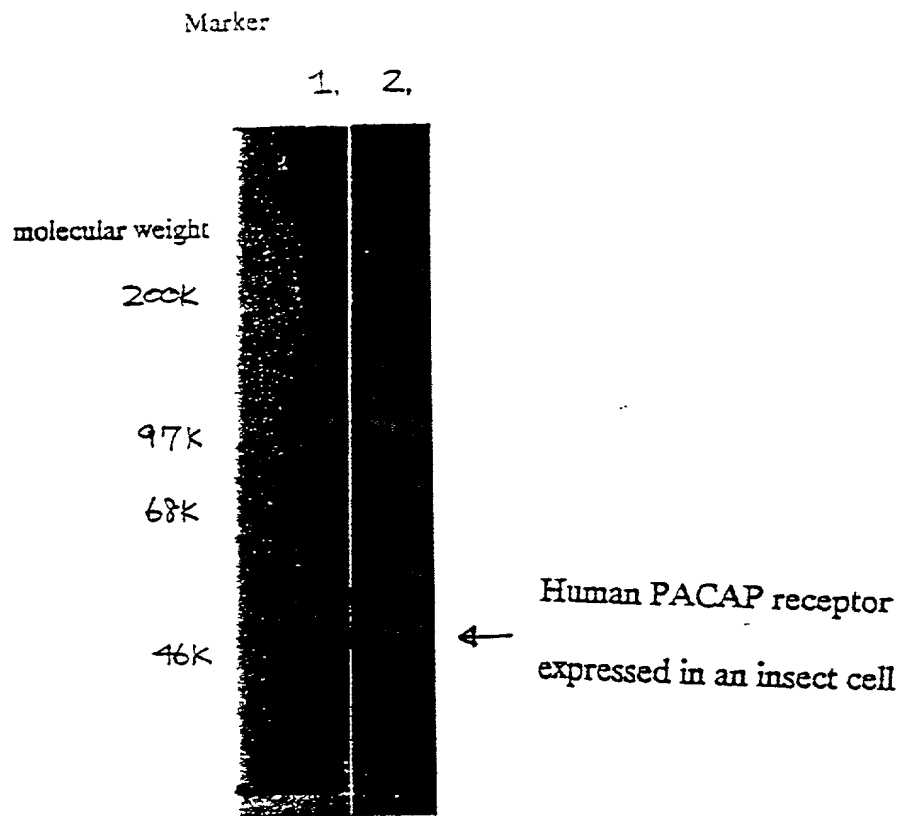


Fig. 54

